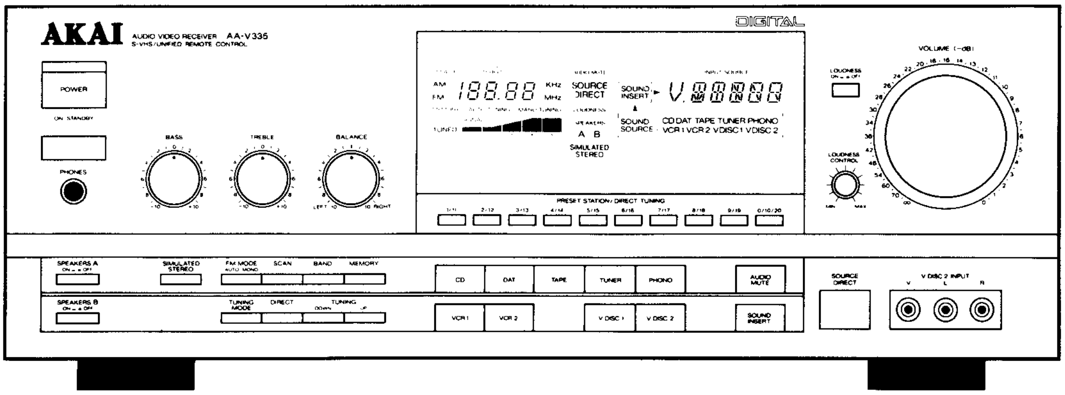
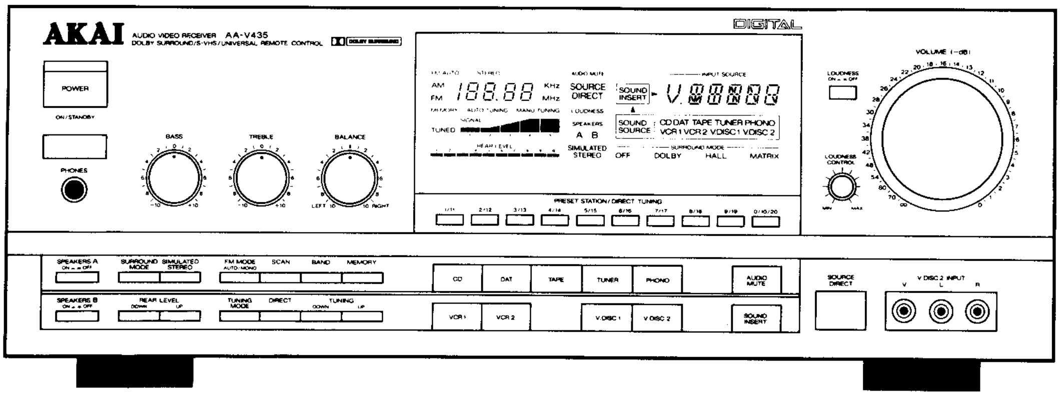
AKAI SERVICE MANUAL



model AA-V335



model AA-V435

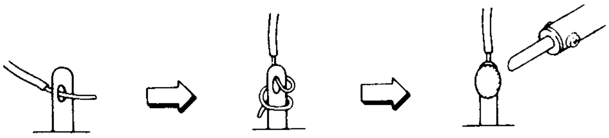
AUDIO VIDEO RECEIVER

MODEL AA-V335
MODEL AA-V435

★SAFETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the ⚠(*) symbol parts are critical for safety. Replace only with parts number specified.
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
   These must also be replaced only with specified replacements.
   Examples: RF converters, tuner units, antenna selectswitches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers (Insulating Barriers)
   4) Insulation sheets for transistors
   5) Plastic screws for fixing microswitch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering.



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).
7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.
The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal-input/output connectors, etc.) and the earth ground through a resister of 1500 ohms paralleled with a 0.15 μF capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.
The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

★INFORMATION

SYMBOLS FOR PRIMARY DESTINATION

Alphabet indicates the destination of the units as listed below.

Symbols	Principal Destinations
A	USA
B	UK
C	Canada
E	Europe (except UK)
J	Japan
S	Australia
V	W. Germany only
U	Universal Area
Y*	Custom version

I. SPECIFICATIONS

1-1. Model AA-V335

Amplifier section	
Power output (per channel)	
by FTC	
(20Hz to 20kHz)	100W (8 ohms, 0.05%)
Music power output	165W (8 ohms)/330W (4 ohms)/660W (2 ohms)
Power bandwidth	10Hz to 60kHz/0.3%
Total harmonic distortion	0.03% (8 ohms, 1kHz)
Phono max. input level	135mV (MM)
Frequency response	5Hz to 100kHz (+0dB, −4dB)
Tone control	
Treble	±8dB (10kHz)
Bass	±8dB (100Hz)
Input sensitivity/Impedance	
Phono (MM)	2.0mV/47k ohms
CD, Tape, etc.	150mV/47k ohms
V.Disc/VCR (Audio)	150mV/47k ohms
V.Disc/VCR (Video)	1Vp-p/75 ohms
Output level/Impedance	
Tape rec out	150mV/1k ohms
VCR (Audio)	150mV/1k ohms
Monitor/VCR (Video)	1Vp-p/75 ohms
Damping factor	28.7 (8 ohms, 1kHz)
Residual noise	0.5mV (8 ohms)
S/N	
Phono (MM)	70dB
CD, Tape	90dB (Source direct)
Channel separation (IHF)	60dB (1kHz)
Required speaker impedance	
A or B	8 ohms to 16 ohms
A and B	16 ohms
Tuner section	
FM Tuner	
Tuning frequency range	87.5MHz to 108.0MHz
Usable sensitivity	11.2dBf
Quieting sensitivity	
(IHF, S/N=50dB)	16.2dBf (Mono)/37.2dBf (Stereo)
Capture ratio	1.5dB
Selectivity (400kHz)	60dB
Image rejection	85dB
IF rejection	90dB
Spurious rejection	80dB
AM suppression	60dB
S/N (IHF)	75dB (Mono)/65dB (Stereo)
Harmonic distortion	0.1% (Mono)/0.3% (Stereo)
Stereo separation (1kHz)	45dB
Frequency response	30Hz to 15kHz (±0.5dB)
AM Tuner	
Tuning frequency range	530kHz to 1,610kHz
Usable sensitivity	
(AM Loop antenna)	300μV/m
Selectivity	25dB
Image rejection	45dB
IF rejection	35dB
S/N	40dB
T.H.D.	1.0%
Power requirement	120V, 60Hz
Dimensions	425(W) × 158(H) × 368(D) mm (16.7 × 6.2 × 14.5 inches)
Weight	11.8kg (26.0 lbs)

Standard accessories	
FM antenna	1
AM loop antenna	1
FM antenna plug	1
Remote control unit (RC-V335)	1
Batteries for remote control unit (UM-3)	2
Operator's manual	1

1-2. Model AA-V435

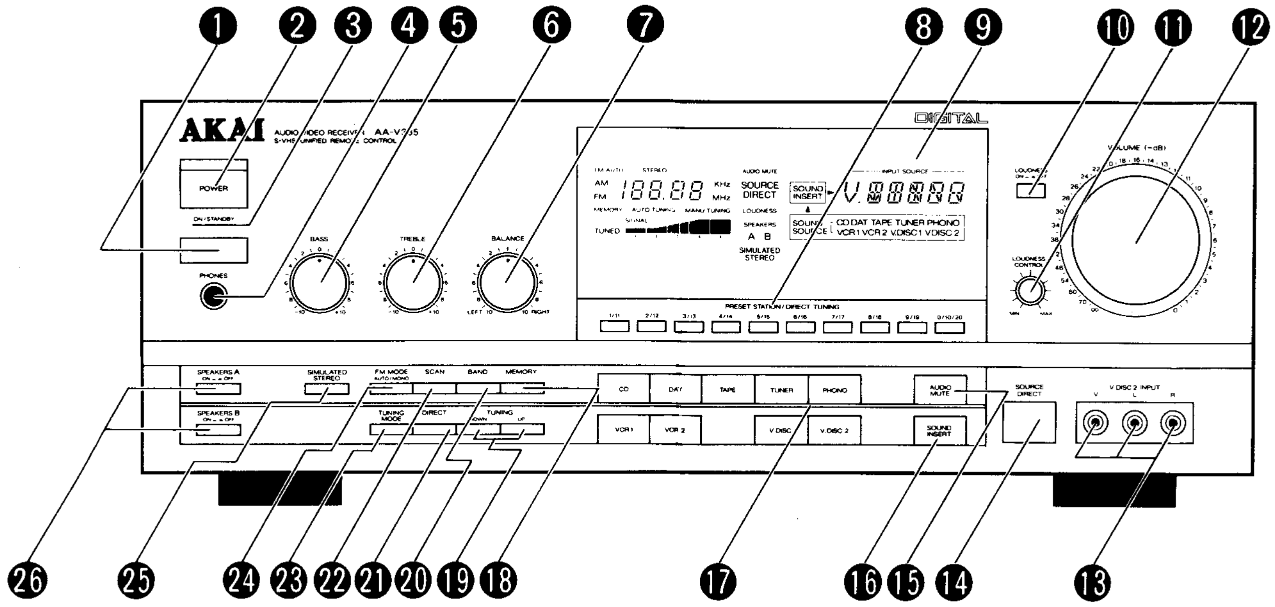
Amplifier section	
Power output (per channel)	
FTC (20Hz to 20kHz)	125W (8 ohms, 0.05%)
Rear power output	15W (L+R)
Dynamic power output	160W (8 ohms)/200W (6 ohms)/220W (4 ohms), 300W (2 ohms)
Power bandwidth	10Hz to 60kHz/0.3%
Total harmonic distortion	0.03% (8 ohms, 1kHz)
Phono max. input level	135mV (MM)
Frequency response	5Hz to 100kHz (+0dB, −4dB)
Tone control	
Treble	±8dB (10kHz)
Bass	±8dB (100Hz)
Input sensitivity/Impedance	
Phono (MM)	2.0mV/47k ohms
CD, Tape, etc.	150mV/47k ohms
V.Disc/VCR (Audio)	150mV/47k ohms
V.Disc/VCR (Video)	1Vp-p/75 ohms
Output level/Impedance	
Tape rec out	150mV/1k ohms
VCR (Audio)	150mV/1k ohms
Monitor/VCR (Video)	1Vp-p/75 ohms
Damping factor	28.7 (8 ohms, 1kHz)
Residual noise	0.5mV (8 ohms)
S/N	
Phono (MM)	70dB
CD, Tape	90dB (Source direct)
Channel separation (IHF)	60dB (1kHz)
Required speaker impedance	
A or B	8 ohms to 16 ohms
A and B	16 ohms
Tuner section	
FM Tuner	
Tuning frequency range	87.5MHz to 108.0MHz
Usable sensitivity	11.2dBf
Quieting sensitivity	
(IHF, S/N=50dB)	16.2dBf (Mono)/37.2dBf (Stereo)
Capture ratio	1.5dB
Selectivity (400kHz)	60dB
Image rejection	85dB
IF rejection	90dB
Spurious rejection	80dB
AM suppression	60dB
S/N (IHF)	75dB (Mono)/65dB (Stereo)
Harmonic distortion	0.1% (Mono)/0.3% (Stereo)
Stereo separation (1kHz)	45dB
Frequency response	30Hz to 15kHz (±0.5dB)
AM Tuner	
Tuning frequency range	530kHz to 1,610kHz
Usable sensitivity	
(AM Loop antenna)	300μV/m
Selectivity	25dB
Image rejection	45dB
IF rejection	35dB
S/N	40dB
T.H.D.	1.0%
Power requirement	120V, 60Hz
Dimensions	425(W) × 158(H) × 368(D) mm (16.7 × 6.2 × 14.5 inches)
Weight	12.8kg (28.2 lbs)

Standard accessories	
FM antenna	1
AM loop antenna	1
FM antenna plug	1
Remote control unit (RC-V435)	1
Batteries for remote control unit (UM-4)	4
Operator's manual	1

* For improvement purposes, specifications and design are subject to change without notice.

II. CONTROLS

2-1 Model AA-V335


①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
AKAI
POWER
ON/STANDBY
PHONES
BASS
TREBLE
BALANCE
LEFT
RIGHT
DIGITAL
AM
FM
KHz
MHz
SOURCE DIRECT
SOUND INSERT
SPEAKERS
A B
SIMULATED STEREO
TUNED
CD DAT TAPE TUNER PHONO
VCR1 VCR2 V.DISC1 V.DISC2
PRESET STATION/DIRECT TUNING
LOUDNESS
LOUDNESS CONTROL
MIN
MAX
VOLUME (−dB)
SPEAKERS A
SPEAKERS B
SIMULATED STEREO
FM MODE
SCAN
BAND
MEMORY
TUNING MODE
DIRECT
TUNING
DOWN
UP
CD
DAT
TAPE
TUNER
PHONO
VCR 1
VCR 2
V.DISC
V.DISC 2
AUDIO MUTE
SOUND INSERT
SOURCE DIRECT
V.DISC 2 INPUT
V
L
R
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㉕
㉔
㉓
㉒
㉑
⑳
⑲
⑱
⑰
⑯
⑮
⑭
⑬

① **Remote Sensor Window**
To receive the remote control signal from the RC-V335 provided remote control unit.
Keep away from strong light and direct sunlight as this may interfere with the remote control function.

② **POWER Button and Indicator**
To turn the power on and off.
The indicator will light when the power is on.

③ **ON/STANDBY Indicator**
Tells you the power cord is connected to a household AC outlet.

④ **PHONES Jack**
For connection of headphones.

⑤ **BASS Tone Control**
To adjust the low note (bass) level. When set to 0, the control is ineffective.

⑥ **TREBLE Tone Control**
To adjust the high note (treble) level. When set to 0, the control is ineffective.

⑦ **BALANCE Control**
To adjust the left and right channel balance.
Normally sèt the control to 0.

⑧ **PRESET STATION/DIRECT TUNING buttons**
To memorize and recall FM and AM stations and for direct tuning of stations.

⑨ **FL (Fluorescent) Display**
Tells you what the receiver is doing.

⑩ **LOUDNESS Switch (▬ ON/ ▄ OFF)**
To turn the loudness system on and off.

⑪ **LOUDNESS Control (MIN/MAX)**
To increase or decrease the loudness effect.

⑫ **VOLUME Control (−dB: minus decibel) and Indicator**
To adjust the volume level. The 0 dB (zero decibel) position is the maximum volume output of the receiver.
The indicator will light when the power is turned on.
The surround speaker level can be adjusted at the same time when the surround system is engaged.

⑬ **V.DISC 2 Input Jacks (L: Left/R: Right/V: Video)**
For connection of video equipment for playback purposes.

⑭ **SOURCE DIRECT Switch**
To select the playback operation mode. If you wish to use the BASS, TREBLE or BALANCE controls, set the switch to off.

⑮ **AUDIO MUTE Button**
To instantly reduce the playback volume by 20 dB (1/10) from the level that the VOLUME control is set at.

⑯ **SOUND INSERT Button**
To turn the sound insert system on and off during video source recording and playback.

⑰ **Input Select Buttons (PHONO, TAPE, DAT, TUNER, CD, VCR 1, VCR 2, V.DISC 1, V.DISC 2)**
To select the audio or video source you wish to playback.

⑱ **MEMORY Button**
To store tuned in stations at PRESET STATION button.

⑲ **TUNING Control Button (UP/DOWN)**
To tune in stations manually or automatically.

⑳ **BAND Button**
To select between the FM and AM band.

㉑ **DIRECT Button**
To tune in a stations directly.

㉒ **SCAN Button**
To start automatic preset station scanning.

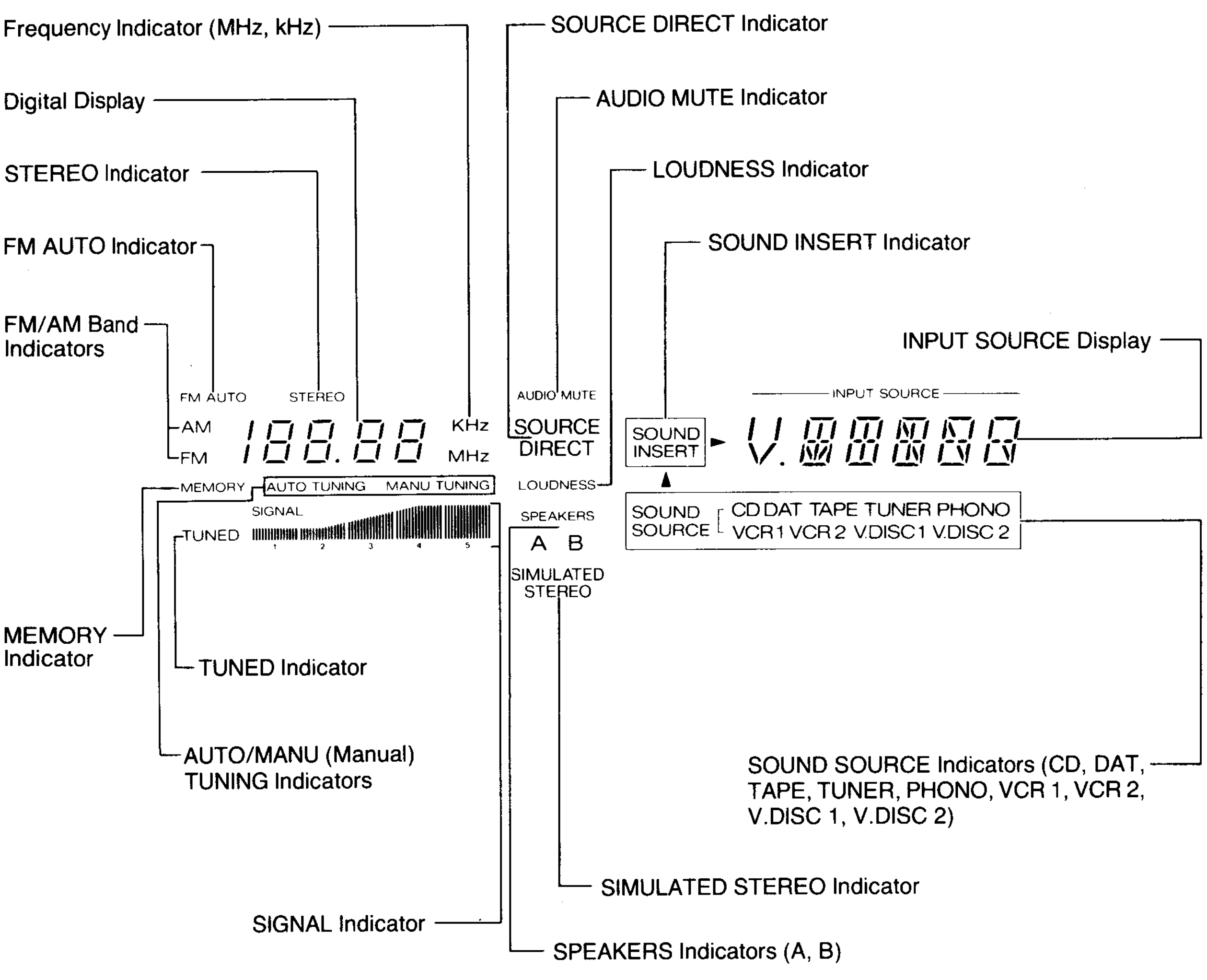
㉓ **TUNING MODE Button**
To select between the automatic or manual tuning modes.

㉔ **FM MODE Button**
To select between the stereo and monaural mode during FM reception.

㉕ **SIMULATED STEREO Button**
To turn the simulated stereo system on and off.

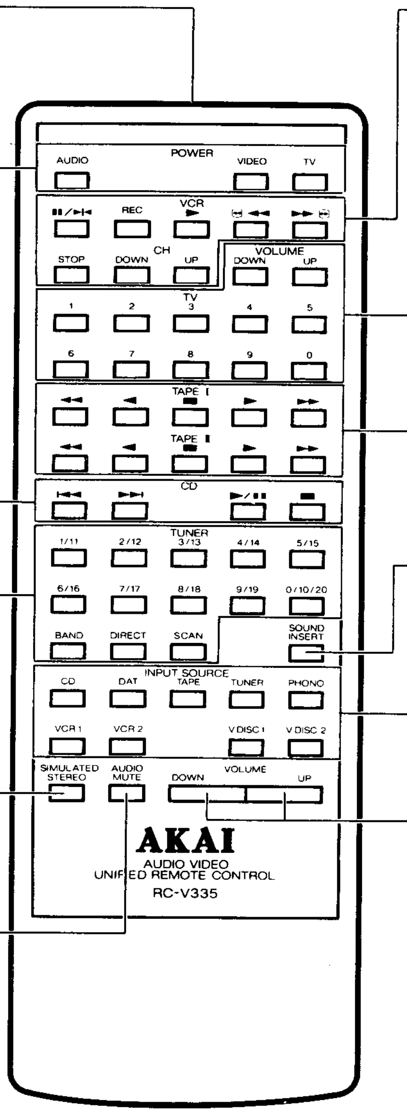
㉖ **SPEAKERS A/B Switch (▬ ON/ ▄ OFF)**
To select the speaker system.
For headphone listening, set both switches to ▄ . When using two pairs of speaker systems at the same time, set both switches to ▬ .

On the FL (Fluorescent) display


Frequency Indicator (MHz, kHz)
Digital Display
STEREO Indicator
FM AUTO Indicator
FM/AM Band Indicators
SOURCE DIRECT Indicator
AUDIO MUTE Indicator
LOUDNESS Indicator
SOUND INSERT Indicator
INPUT SOURCE Display
FM AUTO
STEREO
AM
FM
KHz
MHz
188.88
AUDIO MUTE
SOURCE DIRECT
SOUND INSERT
INPUT SOURCE
MEMORY
AUTO TUNING
MANU TUNING
LOUDNESS
SIGNAL
TUNED
1 2 3 4 5
SPEAKERS
A B
SIMULATED STEREO
SOUND SOURCE
CD DAT TAPE TUNER PHONO
VCR 1 VCR 2 V.DISC 1 V.DISC 2
MEMORY Indicator
TUNED Indicator
AUTO/MANU (Manual) TUNING Indicators
SOUND SOURCE Indicators (CD, DAT, TAPE, TUNER, PHONO, VCR 1, VCR 2, V.DISC 1, V.DISC 2)
SIMULATED STEREO Indicator
SIGNAL Indicator
SPEAKERS Indicators (A, B)

REMOTE CONTROL UNIT

The remote control can be used to conveniently control all of the receiver's functions as well as basic control of Akai video cassette recorders and Mitsubishi TVs.


POWER
AUDIO
VIDEO
TV
VCR
REC
CH
STOP
DOWN
UP
VOLUME
DOWN
UP
TV
1
2
3
4
5
6
7
8
9
0
TAPE I
TAPE II
CD
TUNER
1/11
2/12
3/13
4/14
5/15
6/16
7/17
8/18
9/19
0/10/20
BAND
DIRECT
SCAN
SOUND INSERT
INPUT SOURCE
CD
DAT
TAPE
TUNER
PHONO
VCR 1
VCR 2
V DISC 1
V DISC 2
SIMULATED STEREO
AUDIO MUTE
VOLUME
DOWN
UP
AKAI
AUDIO VIDEO
UNIFIED REMOTE CONTROL
RC-V335

Transmitting window

POWER AUDIO Button
To turn the power of the receiver on and off.

POWER VIDEO Button
To turn the power of an Akai video cassette recorder on and off.

POWER TV Button
To turn the power of a Mitsubishi TV on and off.

CD Player Control Buttons
For control of an Akai CD player.

Tuner Control Buttons
For control of the receiver's tuner.

SIMULATED STEREO Button
To turn the simulated stereo system on and off.

AUDIO MUTE Button
To turn the audio mute system on and off.

VCR (Video Cassette Recorder) Control Buttons
For control of an Akai Video cassette recorder.

TV Control Buttons
For control of a Mitsubishi TVs.

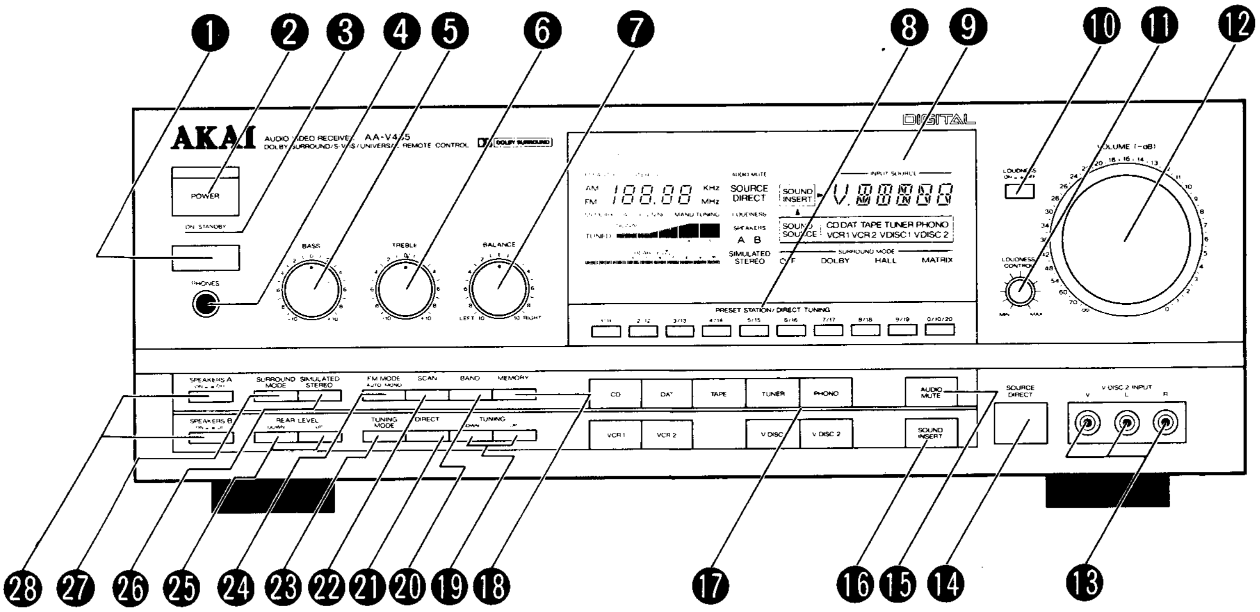
Tape Deck Control Buttons
For control of an Akai cassette deck.

SOUND INSERT Button
To turn the sound insert system on and off.

INPUT SOURCE Select Buttons
To select the audio or video source.

VOLUME Control Buttons (UP/DOWN)
To adjust the playback volume.

2-2 Model AA-V435


1
2
3
4
5
6
7
8
9
10
11
12
AKAI
AA-V435
POWER
ON STANDBY
PHONES
BASS
TREBLE
BALANCE
DIGITAL
SOURCE DIRECT
SOUND INSERT
DOLBY
HALL
MATRIX
PRESET STATION/DIRECT TUNING
LOUDNESS
VOLUME (-dB)
SPEAKERS A
SPEAKERS B
SURROUND MODE
SIMULATED STEREO
REAR LEVEL
FM MODE
SCAN
BAND
MEMORY
TUNING MODE
DIRECT
TUNING
CD
DAT
TAPE
TUNER
PHONO
VCR 1
VCR 2
V.DISC
V.DISC 2
AUDIO MUTE
SOUND INSERT
SOURCE DIRECT
V.DISC 2 INPUT
V
L
R
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
13

① **Remote Sensor Window**
To receive the remote control signal from the RC-V435 provided remote control unit.
Keep away from strong light and direct sunlight as this may interfere with the remote control function.

② **POWER Button and Indicator**
To turn the power on and off.
The indicator will light when the power is on.

③ **ON/STANDBY Indicator**
Tells you the power cord is connected to a household AC outlet.

④ **PHONES Jack**
For connection of headphones.

⑤ **BASS Tone Control**
To adjust the low note (bass) level. When set to 0, the control is ineffective.

⑥ **TREBLE Tone Control**
To adjust the high note (treble) level. When set to 0, the control is ineffective.

⑦ **BALANCE Control**
To adjust the left and right channel balance.
Normally set the control to 0.

⑧ **PRESET STATION/DIRECT TUNING buttons**
To memorize and recall FM and AM stations and for direct tuning of stations.

⑨ **FL (Fluorescent) Display**
Tells you what the receiver is doing.

⑩ **LOUDNESS Switch**
(▬ ON/ ▄ OFF)
To turn the loudness system on and off.

⑪ **LOUDNESS Control (MIN/MAX)**
To increase or decrease the loudness effect.

⑫ **VOLUME Control (–dB: minus decibel) and Indicator**
To adjust the volume level. The 0 dB (zero decibel) position is the maximum volume output of the receiver.
The indicator will light when the power is turned on.
The surround speaker level can be adjusted at the same time when the surround system is engaged.

⑬ **V.DISC 2 Input Jacks**
(L: Left/R: Right/V: Video)
For connection of video equipment for playback purposes.

⑭ **SOURCE DIRECT Switch**
To select the playback operation mode. If you wish to use the BASS, TREBLE or BALANCE controls, set the switch to off.

⑮ **AUDIO MUTE Button**
To instantly reduce the playback volume by 20 dB (1/10) from the level that the VOLUME control is set at.

⑯ **SOUND INSERT Button**
To turn the sound insert system on and off during video source recording and playback.

⑰ **Input Select Buttons**
(PHONO, TAPE, DAT, TUNER, CD, VCR 1, VCR 2, V.DISC 1, V.DISC 2)
To select the audio or video source you wish to playback.

⑱ **MEMORY Button**
To store tuned in stations at PRESET STATION button.

⑲ **TUNING Control Button (UP/DOWN)**
To tune in stations manually or automatically.

⑳ **BAND Button**
To select between the FM and AM band.

㉑ **DIRECT Button**
To tune in a stations directly.

㉒ **SCAN Button**
To start automatic preset station scanning.

㉓ **TUNING MODE Button**
To select between the automatic or manual tuning modes.

㉔ **FM MODE Button**
To select between the stereo and monaural mode during FM reception.

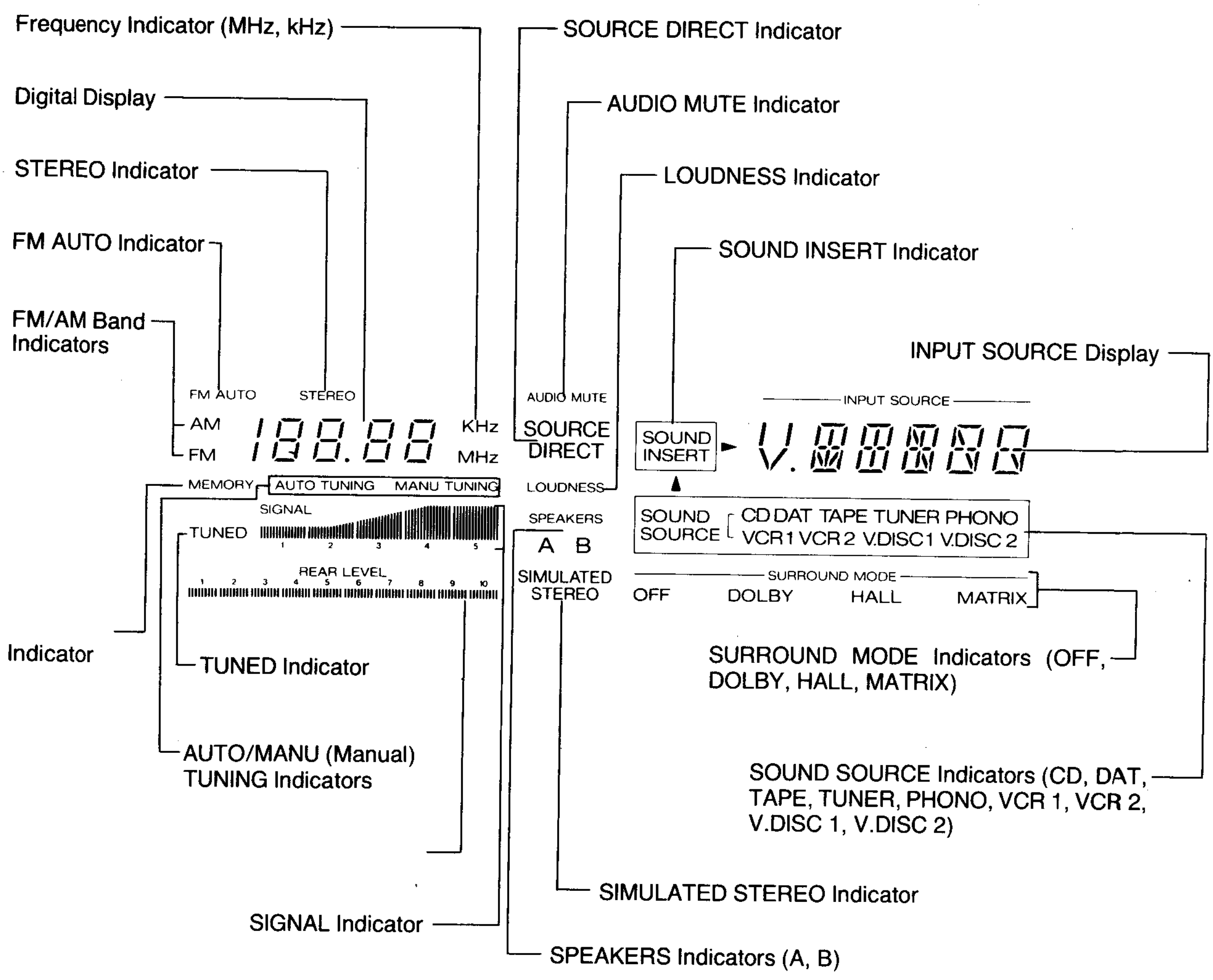
㉕ **REAR LEVEL Control Button (UP/DOWN)**
To adjust the rear surround system playback volume when the surround system is engaged.

㉖ **SIMULATED STEREO Button**
To turn the simulated stereo system on and off.

㉗ **SURROUND MODE Select Button**
To select the surround mode (DOLBY, HALL or MATRIX).

㉘ **SPEAKERS A/B Switch**
(▬ ON/ ▄ OFF)
To select the speaker system.
For headphone listening, set both switches to ▄ . When using two pairs of speaker systems at the same time, set both switches to ▬ .

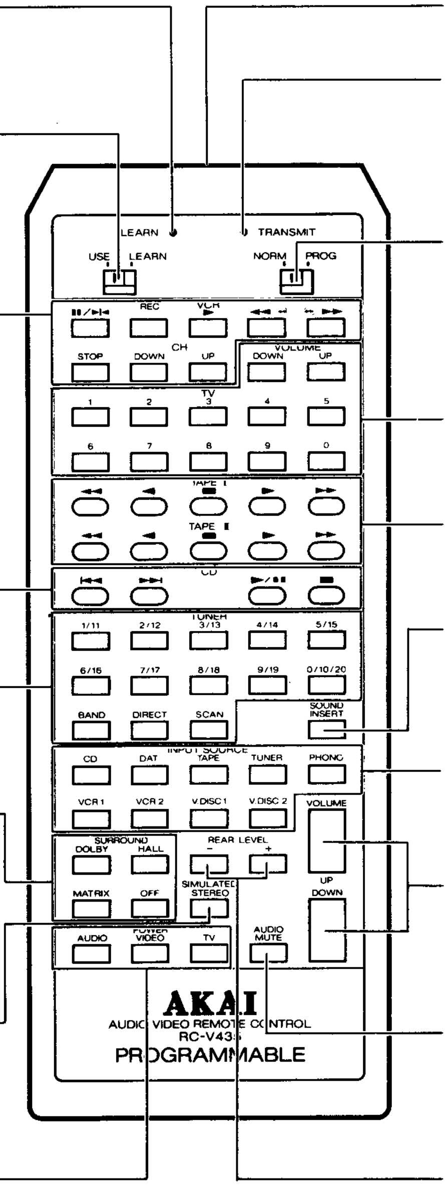
On the FL (Fluorescent) display


Frequency Indicator (MHz, kHz)
Digital Display
STEREO Indicator
FM AUTO Indicator
FM/AM Band Indicators
Indicator
TUNED Indicator
AUTO/MANU (Manual) TUNING Indicators
SIGNAL Indicator
SOURCE DIRECT Indicator
AUDIO MUTE Indicator
LOUDNESS Indicator
SOUND INSERT Indicator
INPUT SOURCE Display
SURROUND MODE Indicators (OFF, DOLBY, HALL, MATRIX)
SOUND SOURCE Indicators (CD, DAT, TAPE, TUNER, PHONO, VCR 1, VCR 2, V.DISC 1, V.DISC 2)
SIMULATED STEREO Indicator
SPEAKERS Indicators (A, B)
FM AUTO
STEREO
AM
FM
188.88
KHz
MHz
MEMORY
AUTO TUNING
MANU TUNING
SIGNAL
TUNED
1 2 3 4 5
REAR LEVEL
1 2 3 4 5 6 7 8 9 10
AUDIO MUTE
SOURCE DIRECT
LOUDNESS
SPEAKERS
A B
SIMULATED STEREO
SOUND INSERT
INPUT SOURCE
V.
SOUND SOURCE
CD DAT TAPE TUNER PHONO
VCR 1 VCR 2 V.DISC 1 V.DISC 2
SURROUND MODE
OFF
DOLBY
HALL
MATRIX

REMOTE CONTROL UNIT

The remote control can be used to conveniently control all of the receiver's functions as well as basic control of Akai video cassette recorders and Mitsubishi TVs.

If you wish to use this remote control to control other components you can transfer their remote control functions to this unit using the programming function.


LEARN
TRANSMIT
USE
LEARN
NORM
PROG
REC
VCR
STOP
CH
DOWN
UP
VOLUME
DOWN
UP
TV
1
2
3
4
5
6
7
8
9
0
TAPE I
TAPE II
CD
TUNER
1/11
2/12
3/13
4/14
5/15
6/16
7/17
8/18
9/19
0/10/20
BAND
DIRECT
SCAN
SOUND INSERT
INPUT SOURCE
CD
DAT
TAPE
TUNER
PHONO
VCR 1
VCR 2
V.DISC 1
V.DISC 2
VOLUME
UP
DOWN
SURROUND
DOLBY
HALL
MATRIX
OFF
REAR LEVEL
–
+
SIMULATED STEREO
POWER
AUDIO
VIDEO
TV
AUDIO MUTE
AKAI
AUDIO VIDEO REMOTE CONTROL
RC-V435
PROGRAMMABLE

LEARN Indicator
Tells you the remote control function is transferred.

USE/LEARN Switch
To set the remote control to it's normal operation mode or to it's remote control function transferring mode.

VCR (Video Cassette Recorder) Control Buttons
For control of an Akai Video cassette recorder.

CD Player Control Buttons
For control of an Akai CD player.

Tuner Control Buttons
For control of the receiver's tuner.

SURROUND Buttons (DOLBY, HALL, MATRIX, OFF)
To select the surround system mode and to turn the surround system on and off.

SIMULATED STEREO Button
To turn the simulated stereo system on and off.

POWER AUDIO Button
To turn the power of the receiver on and off.

POWER VIDEO Button
To turn the power of an Akai video cassette recorder on and off.

POWER TV Button
To turn the power of a Mitsubishi TV on and off.

Transmitting window

TRANSMIT Indicator
Tells you the remote control signals are transmitted.

NORMAL/PROGRAM Switch
To set the remote control's operation mode for control of the receiver or for control of another component using the transferred function signals.

TV Control Buttons
For control of a Mitsubishi TVs.

Tape Deck Control Buttons
For control of an Akai cassette deck.

SOUND INSERT Button
To turn the sound insert system on and off.

INPUT SOURCE Select Buttons
To select the audio or video source.

VOLUME Control Buttons (UP/DOWN)
To adjust the playback volume.

AUDIO MUTE Button
To turn the audio mute system on and off.

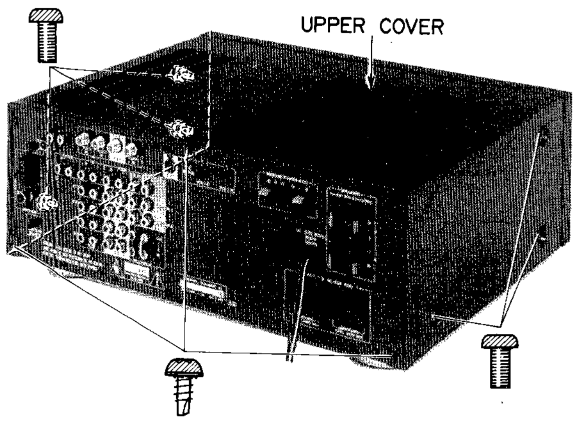
REAR LEVEL Control Button (+: Increase/–: Decrease)
To increase or decrease the rear playback level when the surround system is engaged.

III. DISASSEMBLY

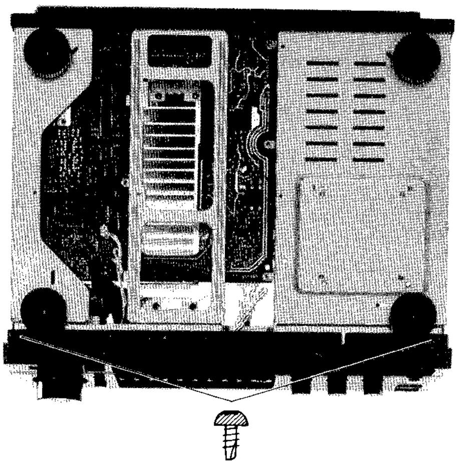
In case of trouble, etc, necessitating dismantling, please dismantle in the order shown in the photographs. Reassemble in reverse order.

∗ Photographs employed here are of model AA-V435.

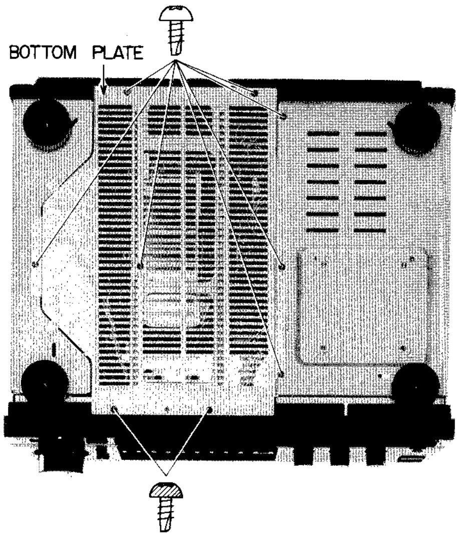
1. Removal of UPPER COVER


UPPER COVER

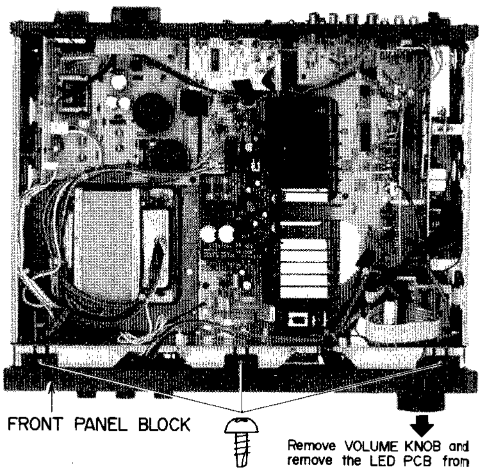
2. Removal of BOTTOM PLATE



3. Removal of FRONT PANEL BLOCK


BOTTOM PLATE

4.


FRONT PANEL BLOCK

Remove VOLUME KNOB and remove the LED PCB from VOLUME KNOB.

IV. PRINCIPAL PARTS LOCATION

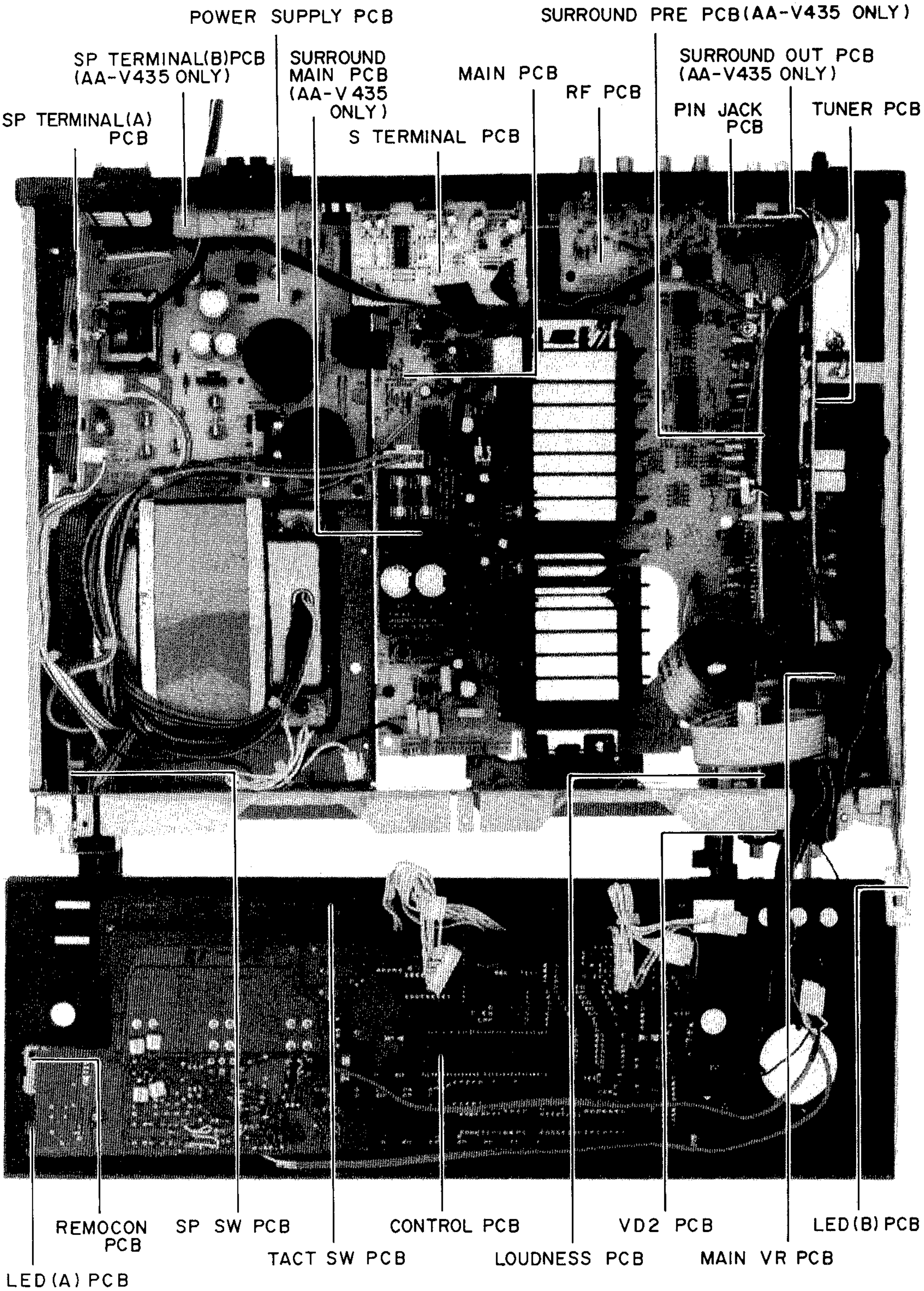

POWER SUPPLY PCB
SURROUND PRE PCB(AA-V435 ONLY)
SP TERMINAL(B)PCB (AA-V435 ONLY)
SURROUND MAIN PCB (AA-V 435 ONLY)
MAIN PCB
RF PCB
SURROUND OUT PCB (AA-V435 ONLY)
SP TERMINAL(A) PCB
PIN JACK PCB
TUNER PCB
S TERMINAL PCB
REMOCON PCB
SP SW PCB
CONTROL PCB
VD2 PCB
LED(B) PCB
TACT SW PCB
LOUDNESS PCB
MAIN VR PCB
LED(A) PCB

Fig. 4-1

V. ELECTRICAL ADJUSTMENT

5-1. INSTRUMENT CONNECTIONS

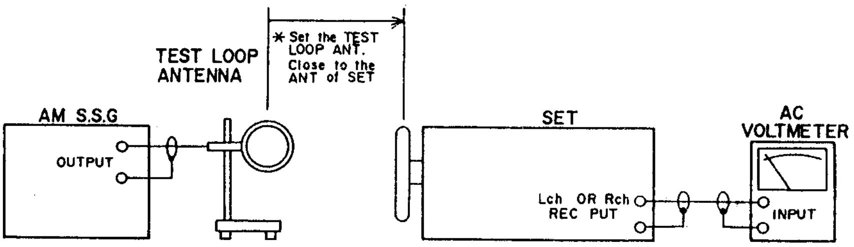

TEST LOOP ANTENNA
* Set the TEST LOOP ANT. Close to the ANT of SET
AM S.S.G
OUTPUT
SET
Lch OR Rch REC PUT
AC VOLTMETER
INPUT

Fig. 5-1. Instrument Connection for AM Section Adjustments

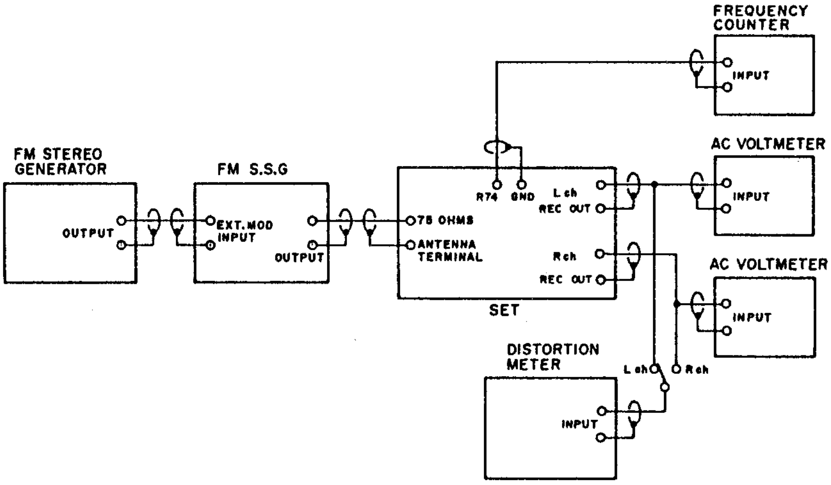

FREQUENCY COUNTER
INPUT
FM STEREO GENERATOR
OUTPUT
FM S.S.G
EXT.MOD INPUT
OUTPUT
R74
GND
Lch REC OUT
75 OHMS
ANTENNA TERMINAL
Rch REC OUT
SET
AC VOLTMETER
INPUT
AC VOLTMETER
INPUT
DISTORTION METER
Lch
Rch
INPUT

Fig. 5-2. Instrument Connection for FM Section Adjustments

5-2. HOW TO RECALL THE PRESET TUNING FREQUENCY FOR ADJUSTMENT

Short the two Jumper Wires JW6 and JW7 on the TUNER PCB momentarily as shown Fig.5-3, then select the required tuning frequency by pushing one of the PRESET STATION button on the FRONT PANEL.

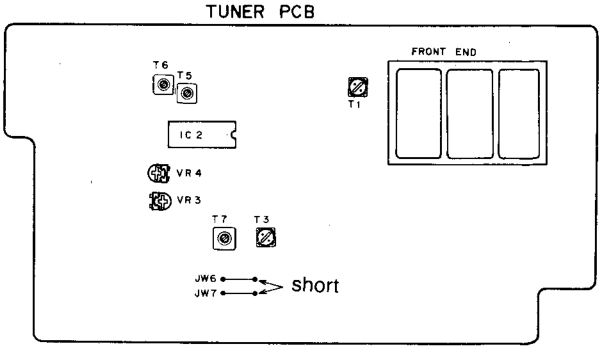

TUNER PCB
FRONT END
T6
T5
T1
IC 2
VR 4
VR 3
T7
T3
JW6
JW7
short
* View from the parts side

Fig. 5-3

* The internal tuning frequency preset memory is set as below.

PRESET STATION	1 ch	2 ch	3 ch	4 ch	5 ch	6 ch	7 ch	8 ch	9 ch	10 ch
TUNING FREQUENCY	FM 88.00MHz	FM 90.00MHz	FM 98.00MHz	FM 100.00MHz	FM 106.00MHz	FM 108.00MHz	FM 95.70MHz	FM 107.70MHz	AM 530kHz	AM 600kHz

PRESET STATION	11 ch	12 ch	13 ch	14 ch	15 ch	16 ch	17 ch	18 ch	19 ch	20 ch
TUNING FREQUENCY	AM 1,000kHz	AM 1,400kHz	AM 800kHz	AM 1,300kHz	AM 1,610kHz	AM 1,1900kHz	FM 92.00MHz	FM 94.00MHz	FM 96.00MHz	FM 102.00MHz

5-3. TUNER ADJUSTMENT

NOTES:
1. Set SSG to 75kH deviation, 1kHz.
2. Confirm that the sensitivity margin between low and high range sensitivities are within 3dBμ, otherwise readjust low and high range sensitivity.

STEP No.	ADJUSTMENT ITEM
	1. SSG Freq./Att. 2. Tuning freq. 3. Test point, Adjustment part 4. Remarks (•)/Result (*)

——→ Adjustment point

- - - → Test point

FM

4 DISTORTION (MONO)
1. 98MHz (MONO)/60dBμ
2. 98MHz (MONO)
3. REC OUT, T6
4. * Adjust T6 so that the reading on the distortion meter is minimum (less than 0.3%).

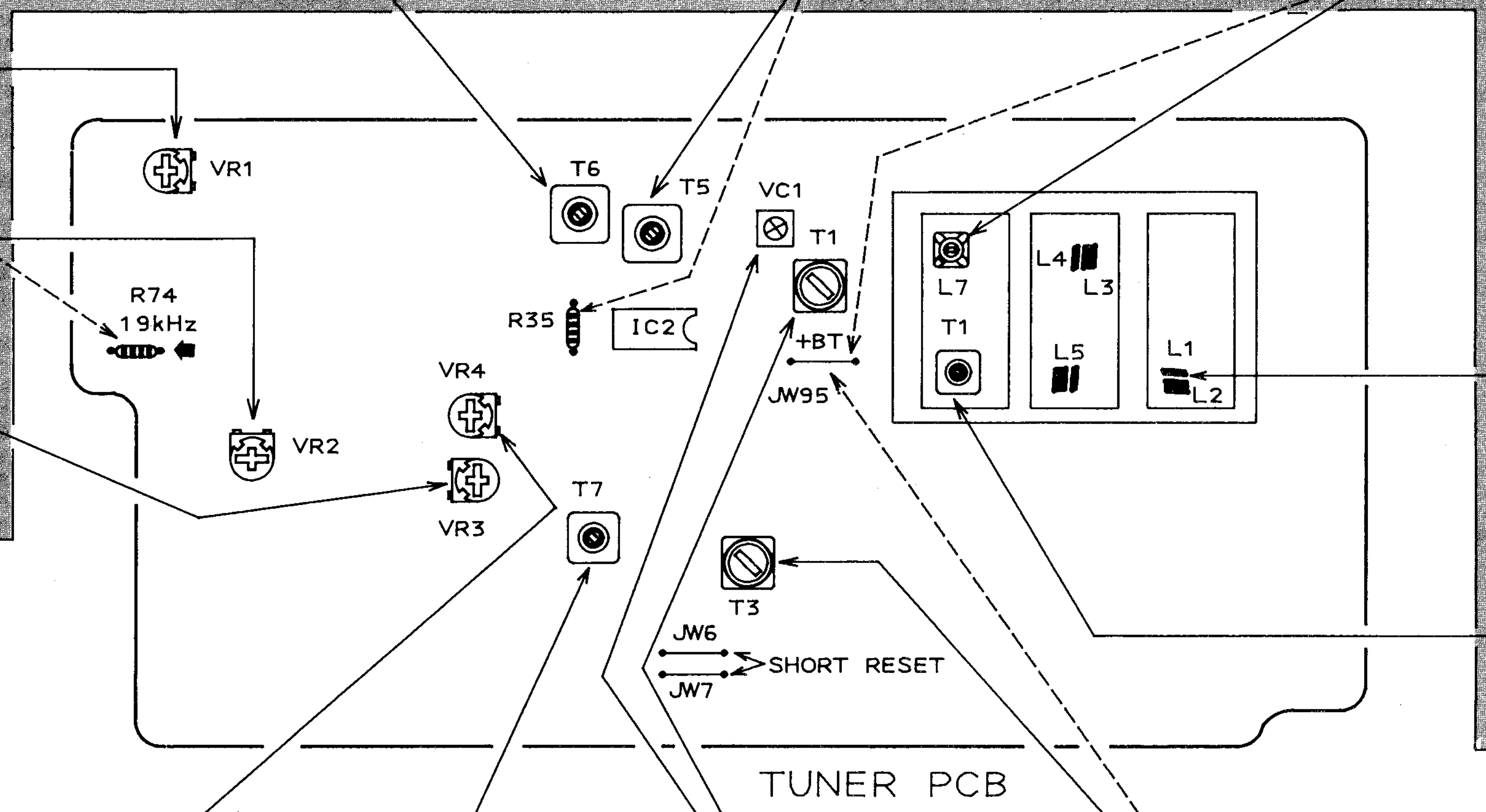
3 CENTER VOLTAGE
1. –
2. Tune only noise without interference from broadcasting.
3. Both end of R35, T5
4. • Connect a digital DC voltmeter between both end of R35.
   * Adjust T5 so that the reading on the digital DC voltmete is DC 0±0.05V.

1 TUNING VOLTAGE
1. –
2. 87.5MHz
3. JW95 (+BT), L7
4. • Connect a digital DC voltmeter between JW95 (+BT) and GND.
   * DC 3.50±0.05V

7 CHANNEL SEPARATION
1. 98MHz (STEREO only "L" or "R" CH)/60dBμ
2. 98MHz (STEREO)
3. REC OUT, VR1
4. * Adjust VR1 so that the level difference between "L" and "R" CH is more than 38dB.

5 MPX FREE RUN FREQUENCY
1. 98MHz/60dBμ
2. 98MHz (MONO)
3. R74 (marking side), VR2
4. • Connect a frequency counter between R74 (marking side) and GND.
   * 19,000±50Hz

8 FM SIGNAL INDICATOR SENSITIVITY
1. 98MHz/35dBμ
2. 98MHz
3. SIGNAL INDICATOR on the FRONT PANEL VR3.
4. * Adjust VR3 so that the 5th segment on the signal indicator is light.



2 FM SENSITIVITY
1. 88MHz, 98MHz, 108MHz/20~10dBμ
2. 88MHz, 98MHz, 108MHz
3. REC OUT, L1 to L5
4. * Adjust L1 to L5 alternately so that the reading on the distortion meter is minimum.

6 DISTORTION (STEREO)
1. 98MHz (STEREO)/60dBμ
2. 98MHz (STEREO)
3. REC OUT, T1 (FRONT END)
4. * Adust T1 (FRONT END) so that the reading on the distortion meter is minimum (less than 0.8%).

AM

4 AM SIGNAL INDICATOR SENSITIVITY
1. 1,000kHz/65dBμ
2. 1,000kHz
3. SIGNAL INDICATOR on the FRONT PANEL, VR4
4. * Adjust VR4 so that the 3rd segment on the signal indicator is light.

3 IF
1. 1,000kHz/74dBμ
2. 1,000kHz
3. REC OUT, T7
4. * Minimum distortion

2 AM SENSITIVITY
1. 600kHz (Low), 1,400kHz (High)/60dBμ
2. 600kHz (Low)
3. REC OUT, T1 (Low) VC1 (High)
4. * Minimum distortion.
   Note:
   For best result, repeat adjustments at low range and high range two or three times.

1 TUNING VOLTAGE
1. –
2. 1,400kHz
3. JW95 (+BT), T3
4. • Connect a digital DC voltmeter between JW95 (+BT) and GND.
   * DC 6.7V

NOTES:
1. Set SSG to 30%, 1kHz of each.
2. Confirm that the sensitivity margin between low and high range sensitivities are within 6dBμ, otherwise readjust low and high range sensitivity.

V. PARTS LIST

ATTENTION

1. **When placing an order for parts, be sure to list Part No., Model No. and the description of eachpart. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.**
2. **Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.**
3. **Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.**

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

REF. NO.	PART NO.	DESCRIPTION
1	BH-T2023A320A	HEAD BASE BLOCK
2	HP-H2206A010A	HEAD R/P PR4-8FU C
3	ZS-477876	PAN20×03STL CMT
4	ZS-536488	BID20×08STL CMT
5	ZG-402895	SP CS ANGLE ADJUST

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

b) PC Board

6. MAIN PC BOARD

REF. NO.	PART NO.	DESCRIPTION
IC1	EI-324536	IC HD14049BP
IC2	EI-336801	IC MB8841-564M
C1A	EC-338399	C MMY V 223M 250AC [U,E,B,S]
C1B	EC-350949	C MMY V 223M 250DC [J]
C1C	EC-338397	C MMY V 223M 125AC [C,A]
X1	EI-318384	OSC X'TAL NC-18C

Symbols for primary destination

[A] : AAL (U.S.A)
[B] : BEAB (England)
[C] : CSA (Canada)
[E] : CEE (Europe)
[J] : JPN (Janan)
[S] : SAA (Australia)
[U] : U/T (Universa Area)
[V] : VDE (W. Germany)
[Y] : Custom Version

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No.listed at right of Part No.

WARNING

⚠(*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

⚠(*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉDE L'APPAREIL, NE REMPLACER QUE DES PIÉCES RECOMMANDEES PAR LÉ FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

Ref. No.	Part No.	Description
1	*BT-384245J	TRANS POW A1027-AC [AA-V335]
2	*BT-384246J	TRANS POW A1028-AC [AA-V435]
3	*BT-384281J	TRANS POW A1028S-CA
4	ED-726884J	D IED LN66A
5	ED-376111	D LED SE303AC INFRARED
6	ED-386456J	D LED SLP-144B RED
7	ED-384268J	D LED SLP-175D-50 RED [ON/STANDBY]
8	ED-361885	D LED SLP-384C-51 GREEN [POWER]
9	ED-382358J	D LED SLR34PC 3F K,L,M GREEN [VOLUME INDICATOR]
10	ED-726882J	D PHOTO SPS-503C-3
11	ED-718658	D SILICON CHIP DAN202K
12	ED-718659	D SILICON CHIP DAP202K
13	*ED-330319	D SILICON DBA10B 100/1.0A
14	ED-348990	D SILICON H DS446
15	ED-307572	D SILICON H 1SS131
16	ED-360934	D SILICON H 1SS238
17	ED-624903	D SILICON H 1S2473
18	*ED-384324J	D SILICON RBV402 200/4.0A
19	*ED-384278J	D SILICON RBV602 200/6.0A
20	*ED-370990	D SILICON 1SR35-100AHS F10
21	ED-717990	D SILICON 1SS181
22	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
23	ED-349448	D VARACTOR 1SV147
24	ED-310387	D ZENER H HZ12 B2
25	ED-330218	D ZENER H HZ15-2L
26	ED-346567	D ZENER H HZ16-1L
27	ED-329051	D ZENER H HZ24 3
28	ED-346594	D ZENER H HZ3 B3
29	ED-346627	D ZENER H HZ33 2
30	ED-338333	D ZENER H HZ5 B2
31	ED-306316	D ZENER H HZ5 C2
32	ED-331197	D ZENER H HZ6 C1
33	ED-337265	D ZENER H HZ6 C2
34	ED-346526	D ZENER H HZ6B1L
35	ED-318859	D ZENER H HZ9 C2
36	*EF-310229	FUSE TSC 125V 1.00A [AA-V335]
37	*EF-309392	FUSE TSC 125V 1.25A [AA-V435]
38	*EF-306954	FUSE TSC 125V 2.00A
39	*EF-346115	FUSE TSC 125V 6.30A [AA-V335]
40	*EF-345658	FUSE TSC 125V 8.00A [AA-V435]
41	EH-344434	FILTER CE BFU450C4N 0.450MHZ
42	EH-355568	FILTER CE SFE10.7MS2G-A
43	EH-370069	FILTER LC LP 42B-1081-00
44	EI-384264J	IC A1027 1271
45	EI-353421	IC BA6229
46	EI-726879J	IC CXK5864M 12L/12 15L/15
47	EI-361624	IC LA1265
48	EI-349591	IC LA2730
49	EI-343417	IC LB1294
50	EI-726881J	IC LC74HC10M
51	EI-384285J	IC LC7821
52	EI-361622	IC LM7001
53	*EI-384279J	IC MC7806CT
54	EI-360227	IC MN3007
55	EI-360228	IC MN3101
56	EI-370973	IC M4066BP
57	EI-726878J	IC M50747-272FP
58	EI-346071	IC M5218L-21
59	EI-349719	IC M5218P
60	EI-344764	IC M5218P-21
61	*EI-384286J	IC STK4044V [AA-V335]
62	*EI-384288J	IC STK4046V [AA-V435]
63	EI-371579	IC S8054ALB
64	EI-310036	IC TC4066BP
65	EI-343371	IC TC9154AP
66	EI-351849	IC UPC1235C
67	EI-354080	IC UPC1237H
68	*EI-384342J	IC UPC1238V
69	EI-726880J	IC UPD4538BG
70	EI-726144J	IC UPD6124G-536
71	EI-376113	OSC CE CSB455EB
72	EI-388110J	OSC CE CST4.19MG 4.194MHZ
73	EI-726885J	OSC CE 8MHZ
74	EI-344422	OSC X'TAL HC-18/U 7.200MHZ
75	*EJ-384277J	SOCKET OUTLET M7037 2P
76	*EJ-384283J	SOCKET OUTLET M7037-B 2X2P
77	EJ-349417	TERMINAL LEVER YKD21-0026 4P [SURROUND SP TERMINAL]
78	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P [ANTENNA TERMINAL]
79	EJ-349061	TERMINAL PUSH YKD21-0025 P 8P [SPEAKER TERMINAL]
80	EM-384263J	IND FL BG-558GK
81	*EQ-385209J	RELAY POW VS-12-MB-NR
82	EQ-382352J	RELAY POW G5R-2282P 2NO 24V
83	*ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
84	*ER-356573	R SD ANTI-STATIC 1/2W 225K
85	ES-384302J	SW PUSH ESB-62 06-02 [LOUDNESS SW]
86	ES-383041J	SW PUSH ESB-62931 2-04-02N [SOURCE DIRECT SW]
87	ES-384346J	SW PUSH SPUL23 04-02 2THRPW N [SPEAKER SELECTOR SW]
88	ES-726886J	SW SLIDE SSSS71079A
89	ES-349474	SW TACT SKHHAM004A [1/11]
90	ES-359172	SW TACT SKHHAP [POWER]
91	ES-726887J	SW TACT SKHMPA0001
92	ET-381637J	DETECTOR GP1U521
93	ET-718652	TR CHIP 2SC2412K
94	ET-726883J	TR CHIP 2SD1664
95	ET-363953	TR DTA114TS
96	ET-354415	TR DTA144ES
97	ET-373985	TR DTA144TS
98	ET-360399	TR DTC114TS
99	ET-354371	TR DTC124ES
100	ET-370310	TR DTC144TS
101	ET-354094	TR DTC144WS
102	ET-349449	TR FET 2SK161 O,Y
103	ET-337759	TR FET 2SK246 GR
104	ET-724344J	TR 2SA1037K
105	ET-308472	TR 2SA1115 E,F,G F05
106	ET-353899	TR 2SA1317 S,T,U
107	ET-305463	TR 2SA970 GR,BL
108	*ET-366365	TR 2SB1185 E,F
109	*ET-373210	TR 2SB1187 E,F
110	ET-307195	TR 2SC2240 GR,BL
111	ET-338410	TR 2SC2878 A,B
112	ET-336869	TR 2SC2999 C,D
113	ET-360067	TR 2SC3330 T,U F05
114	ET-349081	TR 2SC3383 S,T
115	ET-357878	TR 2SC3383 S2,T,U
116	ET-356437	TR 2SC930 D2,E,F
117	ET-328265	TR 2SC930 F
118	*ET-366581	TR 2SD1762 E,F
119	ET-721755J	TR 2SD596
120	EV-384318J	VR ROTARY RK09K1110 SPCL W105 [SURROUND BALANCE AA-435]
121	EV-384319J	VR ROTARY RK1631210 A104X2 [LOUDNESS CONTROL]
122	EV-384316J	VR ROTARY RK1631220 B103X2 [BASS]
123	EV-384317J	VR ROTARY RK1631220 M254N254 [BALANCE]
124	EV-384328J	VR SPL RK16Y12MA B104X2 [MAIN VOLUME][AA-V335]
125	EV-384323J	VR SPL RK16313MA M104 B104X2 [MAIN VOLUME][AA-V435]
126	*EZ-358816	BATTERY LITHIUM BR2032-1HF

2. P.C BOARD BLOCK

Ref. No.	Part No.	Description
1A	BA-A1027C020A	PC(#) MAIN BLK AA-V335(A) [A]
1B	BA-A1027C020C	PC(#) MAIN BLK AA-V335(C) [C]
1C	BA-A1027C020B	PC(#) MAIN BLK AA-V435(A) [A]
1D	BA-A1027C020D	PC(#) MAIN BLK AA-V435(C) [C]
2A	BA-A1027C030A	PC(#) TUNER BLK AA-V335
2B	BA-A1027C030B	PC(#) TUNER BLK AA-V435
3	BA-F0141A010F	PC FRONT END BLK FE41(A)
4A	BA-A1027C040A	PC(#) CONTROL BLK AA-V335
4B	BA-A1027C040B	PC(#) CONTROL BLK AA-V435
5	BA-A1028C050A	PC(#) SURROUND BLK AA-V435 [AA-V435]

PC (#) MAIN BLK CONSISTS OF FOLLOWING P.C BOARD.
- * MAIN P.C BOARD
- * LOUDNESS P.C BOARD
- * SPEAKER SW P.C BOARD
- * VD2 P.C BOARD
- * MAIN VOLUME P.C BOARD

PC (#) TUNER BLK CONSISTS OF FOLLOWING P.C BOARD.
- * TUNER P.C BOARD
- * PIN JACK P.C BOARD
- * S TERMINAL P.C BOARD
- * SPEAKER TERMINAL (A) P.C BOARD
- * POWER SUPPLY P.C BOARD

PC (#) CONTROL BLK CONSISTS OF FOLLOWING P.C BOARD.
- * CONTROL P.C BOARD
- * TACT SW P.C BOARD
- * REMOCOM P.C BOARD
- * LED (A) P.C BOARD

PC (#) SURROUND BLK CONSISTS OF FOLLOWING P.C BOARD.
- * SURROUND PRE P.C BOARD
- * SURROUND MAIN P.C BOARD

3. MAIN P.C BOARD

Ref. No.	Part No.	Description
C20A	EC-367048	C EC V CUT SME 101M 63.0DC [AA-V335]
C20B	EC-201637	C EC V CUT AS1 101M 80.0DC [AA-V435]
C21A	EC-367048	C EC V CUT SME 101M 63.0DC [AA-V335]
C21B	EC-201637	C EC V CUT AS1 101M 80.0DC [AA-V435]
C25	EC-334005	C EC V CUT NP SM 331M 10DC
D1	ED-338333	D ZENER H HZ5 B2
D2	ED-348990	D SILICON H DS446
D3	ED-348990	D SILICON H DS446
D4	ED-624903	D SILICON H 1S2473
D5	ED-348990	D SILICON H DS446
D6	ED-346627	D ZENER H HZ33 2
D7	ED-346567	D ZENER H HZ16-1L
D8	ED-330218	D ZENER H HZ15-2L
D9	ED-346567	D ZENER H HZ16-1L
D10	ED-310387	D ZENER H HZ12 B2
D11	ED-337265	D ZENER H HZ6 C2
D12	ED-329051	D ZENER H HZ24 3
D13	ED-310387	D ZENER H HZ12 B2
D14	ED-348990	D SILICON H DS446
D15	ED-307572	D SILICON H 1SS131
D16	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D18	ED-307572	D SILICON H 1SS131
D19	ED-307572	D SILICON H 1SS131
D20	ED-307572	D SILICON H 1SS131
D21	ED-346594	D ZENER H HZ3 B3
FR1	*ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
FR2	*ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
FR3	*ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
FR4	*ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
FR5	*ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
FR6	*ER-318647	R FUSE H S10 ERD2FC 1/4W 4R7J
IC1	EI-384285J	IC LC7821
IC2	EI-384285J	IC LC7821
IC3	EI-346071	IC M5218L-21
IC4	EI-346071	IC M5218L-21
IC5	EI-349719	IC M5218P
IC6	EI-349719	IC M5218P
IC7	EI-349719	IC M5218P
IC8	EI-353421	IC BA6229
IC9A	*EI-384286J	IC STK4044V [AA-V335]
IC9B	*EI-384288J	IC STK4046V [AA-V435]
IC10	EI-354080	IC UPC1237H
J3	SP-384291J	SOCKET 10N-AQ 10P
J5	SP-384291J	SOCKET 10N-AQ 10P
L1	EO-337880	COIL FIX 2 202AK-018 2R2K
RL1	EQ-382352J	RELAY POW G5R-2282P 2NO 24V
R28	ER-322787	R CB H S10 FS RDS 1/4W 100J
R34	ER-322591	R CB H S10 FS RDS 1/4W 101J
R35	ER-322591	R CB H S10 FS RDS 1/4W 101J
R36	ER-345466	R CT W F09 PLATE 5W R22K [AA-V435]
R37	ER-345466	R CT W F09 PLATE 5W R22K [AA-V435]
R38	ER-345466	R CT W F09 PLATE 5W R22K [AA-V435]
R39	ER-345466	R CT W F09 PLATE 5W R22K [AA-V435]
R40	ER-345466	R CT W F09 PLATE 5W R22K
R45	ER-384296J	R OMF H S15 FS 2W 4R7J
R46	ER-384296J	R OMF H S15 FS 2W 4R7J
R55	ER-384297J	R CB H S12 FS RDS 1/2W 103J
R56	ER-382933J	R OMF H S15 FS 2W 391J
R59	ER-382940J	R OMF H S10 FS 1/2W 182J
R62	ER-382940J	R OMF H S10 FS 1/2W 182J
R64	ER-382940J	R OMF H S10 FS 1/2W 182J
R68	ER-382934J	R OMF H S15 FS 2W 121J
R70	ER-382941J	R OMF H S10 FS 1/2W 392J
TR1	ET-307195	TR 2SC2240 GR,BL
TR2	ET-305463	TR 2SA970 GR,BL
TR3	*ET-366581	TR 2SD1762 E,F
TR4	*ET-366581	TR 2SD1762 E,F
TR5	*ET-366581	TR 2SD1762 E,F
TR6	*ET-366365	TR 2SB1185 E,F
TR7	*ET-366581	TR 2SD1762 E,F
TR8	*ET-373210	TR 2SB1187 E,F
TR9	*ET-373210	TR 2SB1187 E,F
TR10	ET-308472	TR 2SA1115 E,F,G F05
TR11	ET-308472	TR 2SA1115 E,F,G F05

4. LOUDNESS P.C BOARD

Ref. No.	Part No.	Description
IC101	EI-349719	IC M5218P
R107	ER-322591	R CB H S10 FS RDS 1/4W 101J
R108	ER-322591	R CB H S10 FS RDS 1/4W 101J
SW101	ES-383041J	SW PUSH ESB-62931 2-04-02N [SOURCE DIRECT SW]
SW102	ES-384302J	SW PUSH ESB-62 06-02 [LOUDNESS SW]
TR101	ET-338410	TR 2SC2878 A,B
VR101	EV-384319J	VR ROTARY RK1631210 A104X2 [LOUDNESS CONTROL]

5. SPEAKER SW P.C BOARD

Ref. No.	Part No.	Description
J201	EJ-369995	PHONE J 3P HLJ0540-410 GP 6.3 [PHONES9
R201	ER-371591	R OMF H S15 FS 2W 221J
SW201	ES-384346J	SW PUSH SPUL23 04-02 2THRPW N [SPEAKER SELECTOR SW]

6. VD2 P.C BOARD

Ref. No.	Part No.	Description
J301	EJ-384303J	PIN J JPJ0872-01-111 GP 3P [VD2]
F1A	✱EF-346115	FUSE TSC 125V 6.30A [AA-V335]
F1B	✱EF-345658	FUSE TSC 125V 8.00A [AA-V435]

7. MAIN VOLUME P.C BOARD

Ref. No.	Part No.	Description
VR401	EV-384328J	VR SPL RK16Y12MA B104X2 [MAIN VOLUME][AA-V335]
VR501	EV-384323J	VR SPL RK16313MA M104 B104X2 [MAIN VOLUME][AA-V435]

8. LED (B) P.C BOARD

Ref. No.	Part No.	Description
D601	ED-382358J	D LED SLR34PC 3F K,L,M GREEN [VOLUME INDICATOR]

9. TUNER P.C BOARD

Ref. No.	Part No.	Description
D1	ED-306316	D ZENER H HZ5 C2
D2	ED-307572	D SILICON H 1SS131
D3	ED-318859	D ZENER H HZ9 C2
D4	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
D5	ED-349460-A	D VARACTOR SVC321SPA ABCD DBL
D8	ED-307572	D SILICON H 1SS131
D10	ED-307572	D SILICON H 1SS131
D11	ED-307572	D SILICON H 1SS131
D12	ED-307572	D SILICON H 1SS131
D13	ED-307572	D SILICON H 1SS131
FL1	EH-355568	FILTER CE SFE10.7MS2G-A
FL2	EH-355568	FILTER CE SFE10.7MS2G-A
FL3	EH-344434	FILTER CE BFU450C4N 0.450MHZ
FL6	EH-370069	FILTER LC LP 42B-1081-00
FL7	EH-370069	FILTER LC LP 42B-1081-00
IC1	EI-361622	IC LM7001
IC2	EI-361624	IC LA1265
IC3	EI-351849	IC UPC1235C
R10	ER-355633	R OMF H S15 FS 1W 331J
R25	ER-306805	R CB H S15 FS RDS 1/2W 101J
R31	ER-327710	R CB H S10 FS RDS 1/4W 151J
R35	ER-333379	R CB H S10 FS RDS 1/4W 183J
R59	ER-327710	R CB H S10 FS RDS 1/4W 151J
TM1	EJ-359031	TERMINAL LEVER YKD31-0215 P 2P [ANTENNA TERMINAL]
TR1	ET-337759	TR FET 2SK246 GR
TR2	ET-349081	TR 2SC3383 S,T
TR3	ET-353899	TR 2SA1317 S,T,U
TR4	ET-353899	TR 2SA1317 S,T,U
TR10	ET-356437	TR 2SC930 D2,E,F
TR13	ET-349081	TR 2SC3383 S,T
TR14	ET-349081	TR 2SC3383 S,T
TR15	ET-354094	TR DTC144WS
TR16	ET-357878	TR 2SC3383 S2,T,U
TR17	ET-357878	TR 2SC3383 S2,T,U
TR18	ET-353899	TR 2SA1317 S,T,U
TR19	ET-360067	TR 2SC3330 T,U F05
T1	EO-337598	COIL VARI 2 25A-1353-01
T3	EO-363279	COIL OSC 2 A7NRS-9857X 150.0UH
T5	EO-363291	COIL DET 2 78-1128-01
T6	EO-361630	COIL DET 2 78-1126-02
T7	EO-353176	COIL IFT PEGK0008B-01 455.0KHZ
T7A	EH-344435	FILTER CE SFU450B9 0.450MHZ
VC1	EC-359065	C S-FIX H CTC-6U-020 4.3-20
VR1	EV-361673	R S-FIX H RH0615C 0.10W 334
VR2	EV-356576	R S-FIX H RH0615C 0.10W 472
VR3	EV-358829	R S-FIX H RH0615C 0.10W 223
VR4	EV-358829	R S-FIX H RH0615C 0.10W 223
VR5	EV-384318J	VR ROTARY RK09K1110 SPCL W105 [SURROUND BALANCE AA-435]
X1	EI-344422	OSC X'TAL HC-18/U 7.200MHZ

10. PIN JACK P.C BOARD

Ref. No.	Part No.	Description
IC101	EI-344764	IC M5218P-21
IC102	EI-370973	IC M4066BP
IC103	EI-370973	IC M4066BP
J101	EJ-384270J	PIN J T6227-AACB 2P [PHONO]
J102	EJ-368244	PIN J T6087 6P [CD,VCR PLAY]
J103	EJ-382362J	PIN J T6027-AABB 4P [DAT,TAPE PLAY]
J104	EJ-368244	PIN J T6087 6P [V.DISC,VCR REC]
J105	EJ-382362J	PIN J T6027-AABB 4P [DAT,TAPE REC]
J106	EJ-384271J	PIN J T6087-AADB 6P [MONITOR OUT]
J107	EJ-382362J	PIN J T6027-AABB 4P [PROCESSOR]
R109	ER-327710	R CB H S10 FS RDS 1/4W 151J
R110	ER-327710	R CB H S10 FS RDS 1/4W 151J
TR101	ET-353899	TR 2SA1317 S,T,U
TR102	ET-353899	TR 2SA1317 S,T,U
TR103	ET-353899	TR 2SA1317 S,T,U
TR104	ET-370310	TR DTC144TS
TR105	ET-370310	TR DTC144TS
TR106	ET-370310	TR DTC144TS

11. S TERMINAL P.C BOARD

Ref. No.	Part No.	Description
D201	ED-307572	D SILICON H 1SS131
D202	ED-307572	D SILICON H 1SS131
D203	ED-307572	D SILICON H 1SS131
IC201	EI-370973	IC M4066BP
J201	EJ-384275J	DIN J TCS7927-14-401 4P [VCR1]
J202	EJ-384275J	DIN J TCS7927-14-401 4P [VCR2]
J203	EJ-384275J	DIN J TCS7927-14-401 4P [OUT]
TR201	ET-353899	TR 2SA1317 S,T,U
TR202	ET-353899	TR 2SA1317 S,T,U
TR203	ET-370310	TR DTC144TS
TR204	ET-370310	TR DTC144TS
TR205	ET-370310	TR DTC144TS
TR206	ET-370310	TR DTC144TS

12. SPEAKER TERMINAL (A) P.C BOARD

Ref. No.	Part No.	Description
TM401	*EJ-384277J	SOCKET OUTLET M7037 2P
TM402	EJ-349061	TERMINAL PUSH YKD21-0025 P 8P [SPEAKER TERMINAL]

13. POWER SUPPLY P.C BOARD

Ref. No.	Part No.	Description
C503	EC-338411	C CE V FZ 103P 400AC
C504	EC-389170J	C MMY V F12 MMHF 473K 400DC
C505A	EC-384320J	C EC V S10 822M 65.0DC [AA-V335]
C505B	EC-384321J	C EC V SNP 103M 72.0DC [AA-V435]
C506A	EC-384320J	C EC V S10 822M 65.0DC [AA-V335]
C506B	EC-384321J	C EC V SNP 103M 72.0DC [AA-V435]
C507	EC-370033	C EC V CUT SME 102M 35.0DC
C508	EC-370033	C EC V CUT SME 102M 35.0DC
C509	EC-383146J	C EC V CUT SME 102M 50.0DC
D501	*ED-330319	D SILICON DBA10B 100/1.0A
D502	*ED-370990	D SILICON 1SR35-100AHS F10
D503	*ED-384278J	D SILICON RBV602 200/6.0A
D504	*ED-330319	D SILICON DBA10B 100/1.0A
D505	*ED-370990	D SILICON 1SR35-100AHS F10
IC501	*EI-384279J	IC MC7806CT
RL501	*EQ-385209J	RELAY POW VS-12-MB-NR
R504	*ER-356573	R SD ANTI-STATIC 1/2W 225K
TM501	*EJ-384283J	SOCKET OUTLET M7037-B 2X2P
TR501	ET-360399	TR DTC114TS
TR502	ET-360067	TR 2SC3330 T,U F05
T501	*BT-384281J	TRANS POW A1028S-CA
F2A	*EF-310229	FUSE TSC 125V 1.00A [AA-V335]
F2B	*EF-309392	FUSE TSC 125V 1.25A [AA-V435]
F3A	*EF-310229	FUSE TSC 125V 1.00A [AA-V335]
F3B	*EF-309392	FUSE TSC 125V 1.25A [AA-V435]
F4A	*EF-309392	FUSE TSC 125V 1.25A [AA-V335]
F4B	*EF-309392	FUSE TSC 125V 1.25A [AA-V435]

14. FRONT END P.C BOARD

Ref. No.	Part No.	Description
D1	ED-349448	D VARACTOR 1SV147
D2	ED-349448	D VARACTOR 1SV147
D3	ED-349448	D VARACTOR 1SV147
D4	ED-349448	D VARACTOR 1SV147
L1	EO-349461	COIL FIX 2 LINK
L2	EO-349462	COIL FIX 2 U147
L3	EO-349461	COIL FIX 2 LINK
L4	EO-349462	COIL FIX 2 U147
L5	EO-349462	COIL FIX 2 U147
L6	EO-359056	COIL FIX 1 LAL03NA 2R2M
L7	EO-353687	COIL OSC 2 E525HN-110003
TR1	ET-349449	TR FET 2SK161 O,Y
TR2	ET-336869	TR 2SC2999 C,D
TR3	ET-328265	TR 2SC930 F
TR4	ET-349449	TR FET 2SK161 O,Y
T1	EO-337640	COIL IFT 119AC-15533X 10.7MHZ

15. CONTROL P.C BOARD

Ref. No.	Part No.	Description
BT1	*EZ-358816	BATTERY LITHIUM BR2032-1HF
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131
D6	ED-307572	D SILICON H 1SS131
D7	ED-624903	D SILICON H 1S2473
D8	ED-624903	D SILICON H 1S2473
D9	ED-624903	D SILICON H 1S2473
D10	ED-624903	D SILICON H 1S2473
D11	ED-624903	D SILICON H 1S2473
D12	ED-624903	D SILICON H 1S2473
D13	ED-624903	D SILICON H 1S2473
D14	ED-624903	D SILICON H 1S2473
D15	ED-624903	D SILICON H 1S2473
D16	ED-624903	D SILICON H 1S2473
D17	ED-307572	D SILICON H 1SS131
D18	ED-624903	D SILICON H 1S2473
D19	ED-624903	D SILICON H 1S2473
D20	ED-624903	D SILICON H 1S2473
D21	ED-624903	D SILICON H 1S2473
D22	ED-624903	D SILICON H 1S2473
D23	ED-624903	D SILICON H 1S2473
D24	ED-624903	D SILICON H 1S2473
D25	ED-624903	D SILICON H 1S2473
D26	ED-624903	D SILICON H 1S2473
D27	ED-331197	D ZENER H HZ6 C1
D31	ED-307572	D SILICON H 1SS131
D32	ED-307572	D SILICON H 1SS131
D33	ED-307572	D SILICON H 1SS131
D34	ED-307572	D SILICON H 1SS131
D35	ED-624903	D SILICON H 1S2473
D36	ED-307572	D SILICON H 1SS131
D37	ED-307572	D SILICON H 1SS131
D38	ED-307572	D SILICON H 1SS131
D39	ED-307572	D SILICON H 1SS131
D40	ED-624903	D SILICON H 1S2473
D41	ED-624903	D SILICON H 1S2473
D42	ED-624903	D SILICON H 1S2473
FL1	EM-384263J	IND FL BG-558GK
IB1	EH-383096J	COMP R RGLD6X472J
IB2	EH-354954	COMP R RGLD4X472J
IB3	EH-383097J	COMP R RGLD10X472J
IC1	EI-384264J	IC A1027 1271
IC2	EI-343417	IC LB1294
IC3	EI-343417	IC LB1294
IC4	EI-349719	IC M5218P
IC5	EI-349719	IC M5218P
P1	EJ-382690J	PLUG 174075-5 5P
P2	EJ-382690J	PLUG 174075-5 5P
P3	EJ-382690J	PLUG 174075-5 5P
P4	EJ-384267J	PLUG 174711-5 5P
R18	ER-322591	R CB H S10 FS RDS 1/4W 101J
R19	ER-322591	R CB H S10 FS RDS 1/4W 101J
TS101	ES-359172	SW TACT SKHHAP [POWER]
TR1	ET-363953	TR DTA114TS
TR2	ET-363953	TR DTA114TS
TR3	ET-354415	TR DTA144ES
TR4	ET-373985	TR DTA144TS
TR5	ET-373985	TR DTA144TS
TR6	ET-373985	TR DTA144TS
TR7	ET-373985	TR DTA144TS
TR8	ET-354371	TR DTC124ES
TR9	ET-360399	TR DTC114TS
VR1	EV-384316J	VR ROTARY RK1631220 B103X2 [BASS]
VR2	EV-384316J	VR ROTARY RK1631220 B103X2 [TREBLE]
VR3	EV-384317J	VR ROTARY RK1631220 M254N254 [BALANCE]
X1	EI-388110J	OSC CE CST4.19MG 4.194MHZ

16. TACT SW P.C BOARD

Ref. No.	Part No.	Description
TS1	ES-349474	SW TACT SKHHAM004A [1/11]
TS2	ES-349474	SW TACT SKHHAM004A [2/12]
TS3	ES-349474	SW TACT SKHHAM004A [3/13]
TS4	ES-349474	SW TACT SKHHAM004A [4/14]
TS5	ES-349474	SW TACT SKHHAM004A [5/15]
TS6	ES-349474	SW TACT SKHHAM004A [6/16]
TS7	ES-349474	SW TACT SKHHAM004A [7/17]
TS8	ES-349474	SW TACT SKHHAM004A [8/18]
TS9	ES-349474	SW TACT SKHHAM004A [9/19]
TS10	ES-349474	SW TACT SKHHAM004A [0/10/20]
TS11	ES-349474	SW TACT SKHHAM004A [REAR LEVEL UP][AA-V435]
TS12	ES-349474	SW TACT SKHHAM004A [REAR LEVEL DOWN][AA-V435
TS13	ES-349474	SW TACT SKHHAM004A [SIMULATION ON/OFF]
TS14	ES-349474	SW TACT SKHHAM004A [SURROUND MODE][AA-V435]
TS15	ES-349474	SW TACT SKHHAM004A [VCR1]
TS16	ES-349474	SW TACT SKHHAM004A [TUNING UP]
TS17	ES-349474	SW TACT SKHHAM004A [TUNING DOWN]
TS18	ES-349474	SW TACT SKHHAM004A [DIRECT]
TS19	ES-349474	SW TACT SKHHAM004A [TUNING MODE]
TS20	ES-349474	SW TACT SKHHAM004A [V.DISC 2 CAMCORDER]
TS21	ES-349474	SW TACT SKHHAM004A [V.DISC 1 TV]
TS22	ES-349474	SW TACT SKHHAM004A [VCR2]
TS23	ES-349474	SW TACT SKHHAM004A [SOUND INSERT]
TS24	ES-349474	SW TACT SKHHAM004A [CD]
TS25	ES-349474	SW TACT SKHHAM004A [MEMORY]
TS26	ES-349474	SW TACT SKHHAM004A [BAND]
TS27	ES-349474	SW TACT SKHHAM004A [SCAN]
TS28	ES-349474	SW TACT SKHHAM004A [FM MODE AUTO/MONO]
TS29	ES-349474	SW TACT SKHHAM004A [PHONO]
TS30	ES-349474	SW TACT SKHHAM004A [TUNER]
TS31	ES-349474	SW TACT SKHHAM004A [TAPE]
TS32	ES-349474	SW TACT SKHHAM004A [DAT]
TS33	ES-349474	SW TACT SKHHAM004A [AUDIO MUTE]

17. REMOCON P.C BOARD

Ref. No.	Part No.	Description
D52	ED-384268J	D LED SLP-175D-50 RED [ON/STANDBY]
PH1	ET-381637J	DETECTOR GP1U521

18. LED (A) P.C BOARD

Ref. No.	Part No.	Description
D50	ED-361885	D LED SLP-384C-51 GREEN [POWER]
D51	ED-361885	D LED SLP-384C-51 GREEN [POWER]

19. SURROUND PRE P.C BOARD (AA-V435)

Ref. No.	Part No.	Description
D1	ED-346526	D ZENER H HZ6B1L
D2	ED-346526	D ZENER H HZ6B1L
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
IC1	EI-349719	IC M5218P
IC2	EI-349719	IC M5218P
IC3	EI-349719	IC M5218P
IC4	EI-349719	IC M5218P
IC5	EI-349719	IC M5218P
IC6	EI-360227	IC MN3007
IC7	EI-360228	IC MN3101
IC8	EI-349591	IC LA2730
IC9	EI-349719	IC M5218P
IC10	EI-310036	IC TC4066BP
IC11	EI-349719	IC M5218P
IC12	EI-343371	IC TC9154AP
R17	ER-384341J	R CB H S12 FS RDS 1/2W 181J
TR1	ET-370310	TR DTC144TS
TR2	ET-370310	TR DTC144TS
TR3	ET-370310	TR DTC144TS
TR4	ET-370310	TR DTC144TS
TR5	ET-349081	TR 2SC3383 S,T
VR1	EV-352088	R S-FIX V RVF8W01 0.10W 103

20. SURROUND MAIN P.C BOARD (AA-V435)

Ref. No.	Part No.	Description
C106	EC-326583	C MMY V CUT CF921 473K 400DC
C107	EC-324662	C EC V CUT AS1 222M 25.0DC
C108	EC-324662	C EC V CUT AS1 222M 25.0DC
D101	*ED-384324J	D SILICON RBV402 200/4.0A
IC101	*EI-384342J	IC UPC1238V
F5	*EF-306954	FUSE TSC 125V 2.00A
F6	*EF-306954	FUSE TSC 125V 2.00A

21. SPEAKER TERMINAL (B) P.C BOARD (AA-V435)

Ref. No.	Part No.	Description
TM1	EJ-349417	TERMINAL LEVER YKD21-0026 4P [SURROUND SP TERMINAL]

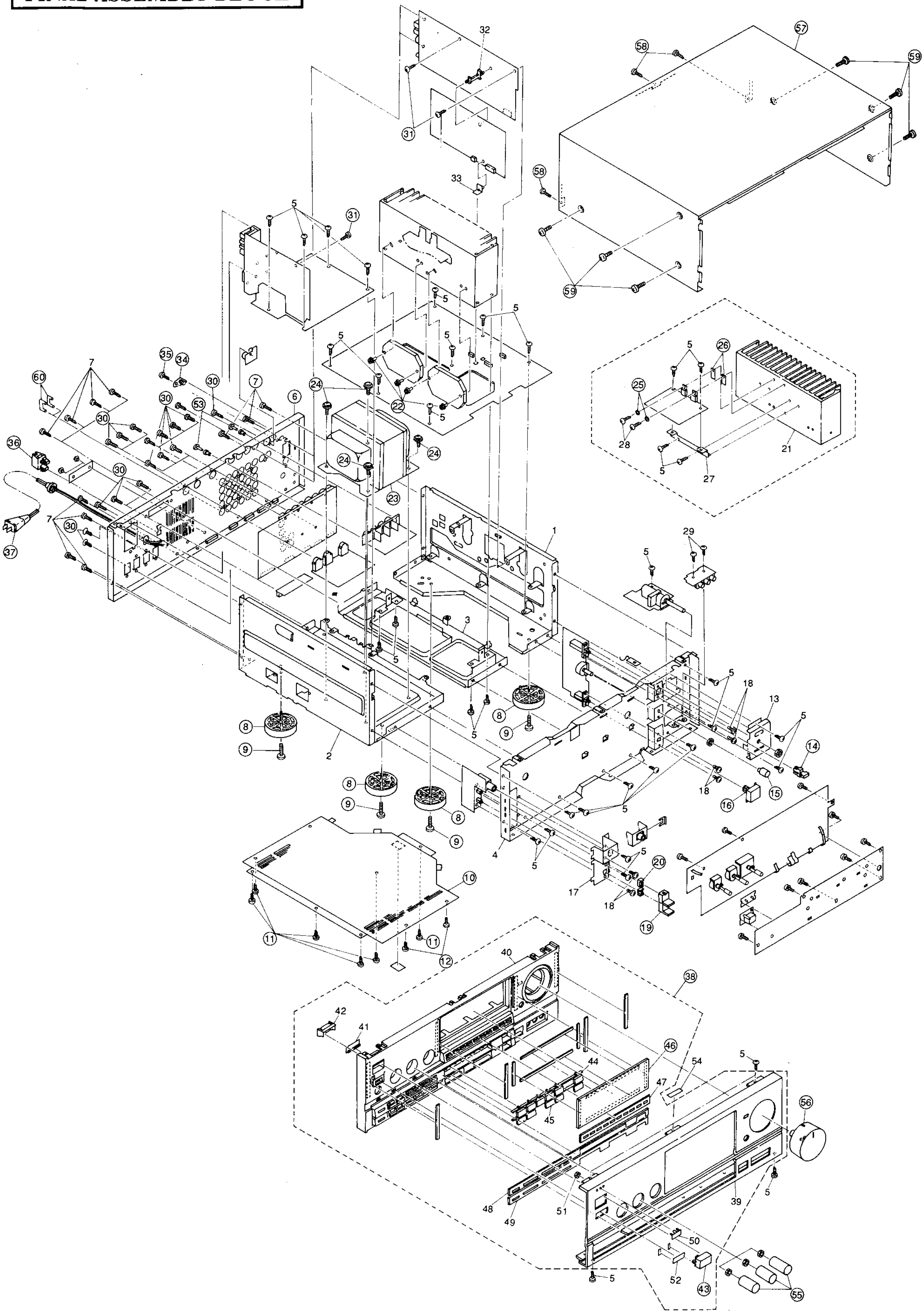
22. SURROUND OUT P.C BOARD (AA-V435)

Ref. No.	Part No.	Description
J201	EJ-384270J	PIN J T6227-AACB 2P [SURROUND OUT]

23. RF SWITCH P.CBOARD

Ref. No.	Part No.	Description
D1	ED-307572	D SILICON H 1SS131
D2	ED-307572	D SILICON H 1SS131
D3	ED-307572	D SILICON H 1SS131
D4	ED-307572	D SILICON H 1SS131
D5	ED-307572	D SILICON H 1SS131
D6	ED-307572	D SILICON H 1SS131
D7	ED-360934	D SILICON H 1SS238
D8	ED-360934	D SILICON H 1SS238
D9	ED-360934	D SILICON H 1SS238
D10	ED-360934	D SILICON H 1SS238
D11	ED-360934	D SILICON H 1SS238
D12	ED-360934	D SILICON H 1SS238
D13	ED-360934	D SILICON H 1SS238
D14	ED-360934	D SILICON H 1SS238
D15	ED-360934	D SILICON H 1SS238
D16	ED-307572	D SILICON H 1SS131
D17	ED-307572	D SILICON H 1SS131
D18	ED-307572	D SILICON H 1SS131
TM1	EJ-366338	JACK PLATE F CONNECTOR 4P [RF IN, V.DISC IN]

FINAL ASSEMBLY BLOCK



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24. FINAL ASSEMBLY BLOCK

Ref. No.	Part No.	Description
5	ZS-447840	T2BR30X08STL CMT
6A	SP-384220J1	PANEL REAR AA-V335(A,C) [AA-V335]
6B	SP-384222J1	PANEL REAR AA-V435(A,C) [AA-V435]
7	ZS-308846	T2BR30X08STL BZN PROJECTION
8	SA-384105J	FOOT ROUND SHAPED(N)
9	ZS-304021	ST BID40X12STL CMT
10	SP-384219J	BOTTOM PLATE
11	ZS-447840	T2BR30X08STL CMT
12	ZS-463353	T2BR30X08STL BNI
14	SK-384004J	KNOB PUSH
15	SK-384005J	KNOB VR
16	SK-384007J	KNOB DIRECT
18	ZS-422076	PAN30X05STL CMT
19	SK-384023J	KNOB SP
20	ZW-368205	FLEXIBLE RING 2414-0-0-086-01
22	ZS-384345J	+6T2 30X20STL CMT C070
23A	∗BT-384245J	TRANS POW A1027-AC [AA-V335]
23B	∗BT-384246J	TRANS POW A1028-AC [AA-V435]
24	ZS-346742	ST BID40X08STL CMT CUP
25	ZW-632226	WASHER INSULATOR (BUSH M)
26	EZ-384327J	TR ACCE INSU. TC20AG-AV TO220
28	ZS-523664	T2BR30X10STL CMT
29	ZS-336351	T2BR30X08STL NI3
30	ZS-350934	PT BR30X08STL BNI
31	ZW-698308	RV NYL30X055 BL
34	EJ-329610	TERMINAL W/SCREW UB-0067 L 1P
35	ZS-308846	T2BR30X08STL BZN PROJECTION
36	SZ-362273	HOLDER ANTENNA (2)
37	∗EW-363827	AC CORD200 KP10WSPT2HB100 A UC
38A	BD-A1027C060A	PANEL FRONT BLK AA-V335-B
38B	BD-A1027C060B	PANEL FRONT BLK AA-V435-B
43	SK-384021J	KNOB POW B
46	SE-384011J1	IND PLATE
50	SM-365756C	NAME PLATE AKAI(2)
51	ZW-653163	RING CS 280STL PKR
53	ZW-231030	RV NYL30X045 BL
55	SK-375362	KNOB BALANCE
56	SK-381022J1	KNOB VR A PART
57	SP-373246B	COVER UPPER-BLACK
58	ZS-308846	T2BR30X08STL BZN PROJECTION
59	ZS-341960	ST BID40X06STL BNI
60	EJ-369015	PLUG SHORT-PIN CNT31-0057

NOTE:
Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

25. ACCESSORY

Ref. No.	Part No.	Description
1A	AX-384258J	REMOCON RC-V335
1B	AX-384259J	REMOCON RC-V435
2	EJ-352118	SOCKET COAX PAL B2-714P-900
3	EE-359265	ANT LOOP LA-200A-A
4	EE-381076J	ANT DIPOLE (FM)

26. REMOCON RC-V335

Ref. No.	Part No.	Description
D1	ED-376111	D LED SE303AC INFRARED
D2	ED-717990	D SILICON 1SS181
D3	ED-717990	D SILICON 1SS181
D4	ED-717990	D SILICON 1SS181
D5	ED-717990	D SILICON 1SS181
IC1	EI-726144J	IC UPD6124G-536
Q1	ET-721755J	TR 2SD596
Z1	EI-376113	OSC CE CSB455EB
1	SC-726125J	CASE BATTERY RC-V235/335

27. REMOCON RC-435

Ref. No.	Part No.	Description
D1	ED-718658	D SILICON CHIP DAN202K
D2	ED-718658	D SILICON CHIP DAN202K
D3	ED-718659	D SILICON CHIP DAP202K
D4	ED-718659	D SILICON CHIP DAP202K
D5	ED-718659	D SILICON CHIP DAP202K
D6	ED-718659	D SILICON CHIP DAP202K
D7	ED-718658	D SILICON CHIP DAN202K
D8	ED-718658	D SILICON CHIP DAN202K
D9	ED-718658	D SILICON CHIP DAN202K
D10	ED-718658	D SILICON CHIP DAN202K
D11	ED-718658	D SILICON CHIP DAN202K
D12	ED-718658	D SILICON CHIP DAN202K
D13	ED-718658	D SILICON CHIP DAN202K
D14	ED-718658	D SILICON CHIP DAN202K
D15	ED-718658	D SILICON CHIP DAN202K
D16	ED-718658	D SILICON CHIP DAN202K
D17	ED-718658	D SILICON CHIP DAN202K
IC1	EI-726878J	IC M50747-272FP
IC2	EI-726879J	IC CXK5864M 12L/12 15L/15
IC3	EI-726880J	IC UPD4538BG
IC4	EI-726881J	IC LC74HC10M
IC5	EI-371579	IC S8054ALB
IED1	ED-726884J	D IED LN66A
IED2	ED-726884J	D IED LN66A
LED1	ED-386456J	D LED SLP-144B RED
LED2	ED-386456J	D LED SLP-144B RED
PH1	ED-726882J	D PHOTO SPS-503C-3
Q1	ET-718652	TR CHIP 2SC2412K
Q2	ET-718652	TR CHIP 2SC2412K
Q3	ET-726883J	TR CHIP 2SD1664
Q4	ET-724344J	TR 2SA1037K
S1	ES-726886J	SW SLIDE SSSS71079A
S2	ES-726886J	SW SLIDE SSSS71079A
S3	ES-726887J	SW TACT SKHMPA0001
X1	EI-726885J	OSC CE 8MHZ
1	SA-726889J	FOOT RUBBER
2	SK-726890J	KNOB SLIDE
3	SC-726888J	COVER BATTERY SBFA06R01A

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ET-370310	10-TR104
ET-370310	10-TR105
ET-370310	10-TR106
ET-370310	11-TR203
ET-370310	11-TR204
ET-370310	11-TR205
ET-370310	11-TR206
ET-370310	19-TR1
ET-370310	19-TR2
ET-370310	19-TR3
ET-370310	19-TR4
ET-373210	1-109
ET-373210	3-TR8
ET-373210	3-TR9
ET-373985	1-97
ET-373985	15-TR4
ET-373985	15-TR5
ET-373985	15-TR6
ET-373985	15-TR7
ET-381637J	1-92
ET-381637J	17-PH1
ET-718652	1-93
ET-718652	27-Q1
ET-718652	27-Q2
ET-721755J	1-119
ET-721755J	26-Q1
ET-724344J	1-104
ET-724344J	27-Q4
ET-726883J	1-94
ET-726883J	27-Q3
EV-352088	19-VR1
EV-356576	9-VR2
EV-358829	9-VR3
EV-358829	9-VR4
EV-361673	9-VR1
EV-384316J	1-122
EV-384316J	15-VR1
EV-384316J	15-VR2
EV-384317J	1-123
EV-384317J	15-VR3
EV-384318J	1-120
EV-384318J	9-VR5
EV-384319J	1-121
EV-384319J	4-VR101
EV-384323J	1-125
EV-384323J	7-VR501
EV-384328J	1-124
EV-384328J	7-VR401
EW-363827	24-37
EZ-358816	1-126
EZ-358816	15-BT1
EZ-384327J	24-26
SA-384105J	24-8
SA-726889J	27-1
SC-726125J	26-1
SC-726888J	27-3
SE-384011J1	24-46
SK-375362	24-55
SK-381022J1	24-56
SK-384004J	24-14
SK-384005J	24-15
SK-384007J	24-16
SK-384021J	24-43
SK-384023J	24-19
SK-726890J	27-2
SM-365756C	24-50
SP-373246B	24-57
SP-384219J	24-10
SP-384220J1	24-6A
SP-384222J1	24-6B
SP-384291J	3-J3
SP-384291J	3-J5
SZ-362273	24-36
ZS-304021	24-9
ZS-308846	24-7
ZS-308846	24-35
ZS-308846	24-58
ZS-336351	24-29
ZS-341960	24-59
ZS-346742	24-24
ZS-350934	24-30
ZS-384345J	24-22
ZS-422076	24-18
ZS-447840	24-5
ZS-447840	24-11
ZS-463353	24-12
ZS-523664	24-28
ZW-231030	24-53
ZW-368205	24-20
ZW-632226	24-25
ZW-653163	24-51
ZW-698308	24-31

ABBREVIATIONS FOR SERVICE MANUAL

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AFC	Auto Frequency Control	MEMO	MEMOry
AGC	Auto Gain Control	MI-COM	MIcro-COMputer
ALC	Auto Level Control	MIN	MINimum
AM	Amplitude Modulation	MIX	MIXing
AMP	AMPlifier	MPX	MultiPleX
ANT	ANTenna	MW	Medium Wave (frequency)
BATT	BATTery	NC	No Connection
BLK	BLocK	NFB	Negative Feed Back
BUFF	BUFFer	OSC	OSCillator
COMP	COMParator	PCB	Printed Circuit Board
DET	DETect (DETector)	PLL	Phase Locked Board
FLD		QD	Quadrature Detector
FM	Frequency Modulation	Rch	Right channel
FREQ	FREQuency	REF	REFerence
GND	GrouND	REG	REGulator
H	High	RF	Radio Frequency
HPF	High Pass Filter	SEG	SEGment
IF	Intermediate Frequency	SELE	SELEctor
IHF	Institute of High Fidelity	SENS	SENSitivity
IND	INDicator	SIG	SIGnal
I/O	In/Out	S/N	Signal to Noise Ratio
JW	Jumper Wire	SSG	Standard Signal Generator
L	Low	STD	STanDard
LCD	Liquid Crystal Display	SW	SWitch: Short Wave (frequency)
Lch	Left channel	THD	Total Harmonic Distortion
LED	Light Emitting Diode	TP	Test Point
LPF	Low Pass Filter	VCO	Voltage Controlled Oscillator
LW	Long Wave (Frequency)	VR	Variable Resistor
		X'TAL	Crystal

AKAI ELECTRIC CO., LTD.
12-14, 2-Chome, Higashi-Kojiya, Ohta-Ku, Tokyo, Japan
SERVICE DEPARTMENT TEL: Tokyo(745)9884 TOKYO TELEX: J26261
Printed No. 881114-A1-1400 Printed Date: December. 19, 1988
350 Printed in Japan

AKAI

MODEL AA-V335
MODEL AA-V435

SCHEMATIC DIAGRAM AND PC BOARDS

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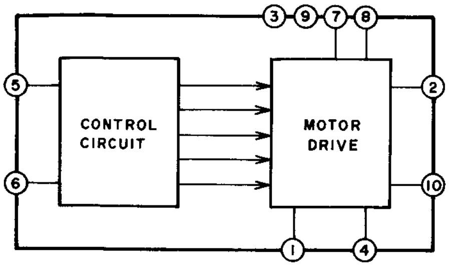
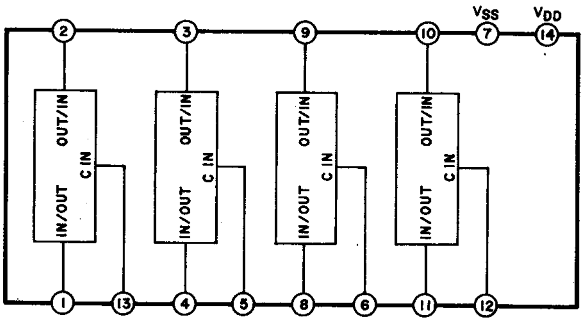
BA6229 (Reversible Motor Drive)


3
9
7
8
5
CONTROL CIRCUIT
MOTOR DRIVE
2
6
10
1
4

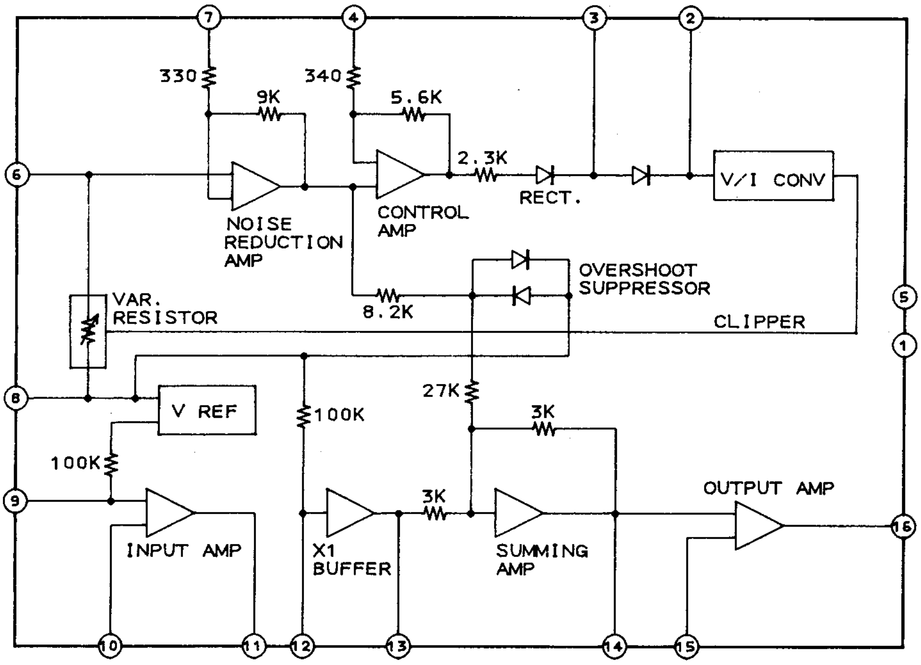
INPUT		OUTPUT		MODE
⑤	⑥	②	⑩	
H	H	L	L	BRAKE
L	H	L	H	CASSETTE & TAPE LOADING
H	L	H	L	CASSETTE & TAPE UNLOADING
L	L	OPEN	OPEN	STOP

M4066B/BU4066B

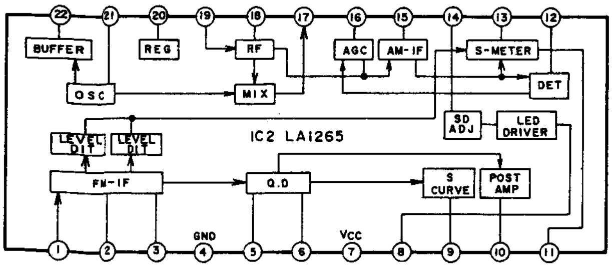

Vss
VDD
2
3
9
10
7
14
OUT/IN
C IN
IN/OUT
1
13
4
5
8
6
11
12

C IN	IMPEDANCE BETWEEN IN/OUT – OUT/IN
H	0.5 to 5 x 10^2 OHMS
L	MORE THAN 10^9 OHMS

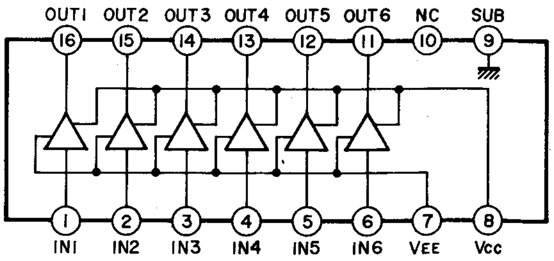
LA2730 (Dolby B Type Noise Reduction)


7
4
3
2
330
340
9K
5.6K
2.3K
6
NOISE REDUCTION AMP
CONTROL AMP
RECT.
V/I CONV
OVERSHOOT SUPPRESSOR
VAR. RESISTOR
8.2K
CLIPPER
5
1
8
V REF
27K
100K
3K
100K
9
3K
OUTPUT AMP
INPUT AMP
X1 BUFFER
SUMMING AMP
16
10
11
12
13
14
15

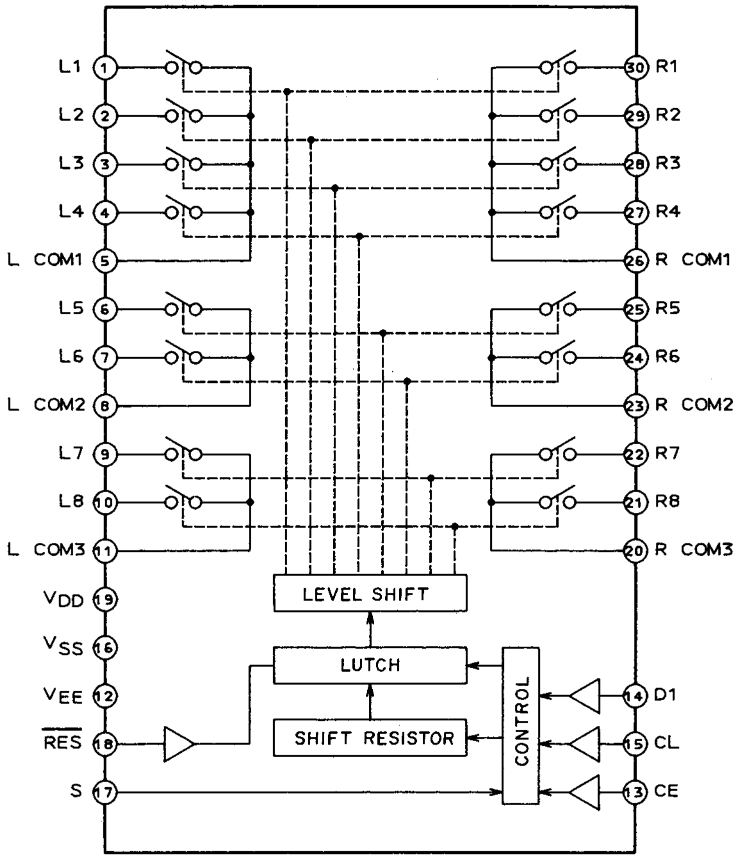
LA1265 (AM/FM Demodulator)


22
21
20
19
18
17
16
15
14
13
12
BUFFER
REG
RF
AGC
AM-IF
S-METER
DET
OSC
MIX
SD ADJ
LED DRIVER
LEVEL DIT
LEVEL DIT
IC2 LA1265
FM-IF
Q.D
S CURVE
POST AMP
GND
Vcc
1
2
3
4
5
6
7
8
9
10
11

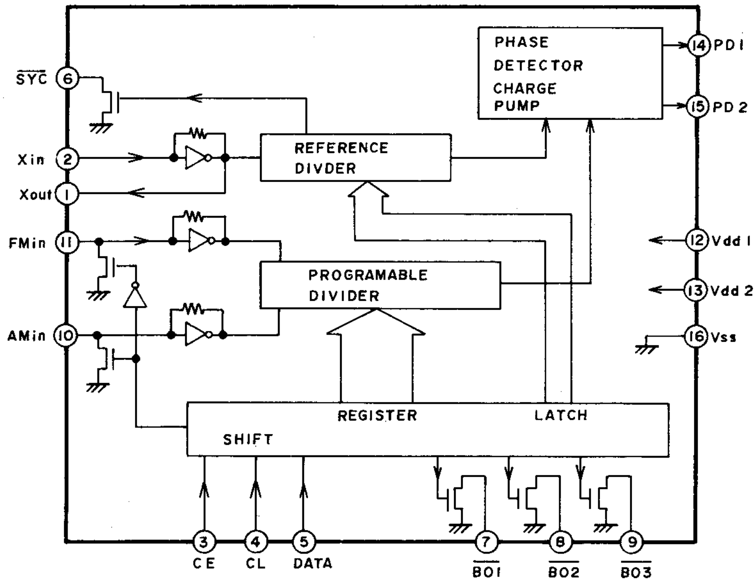
LB1294 (HEX. Driver)


OUT1
OUT2
OUT3
OUT4
OUT5
OUT6
NC
SUB
16
15
14
13
12
11
10
9
1
2
3
4
5
6
7
8
IN1
IN2
IN3
IN4
IN5
IN6
VEE
Vcc

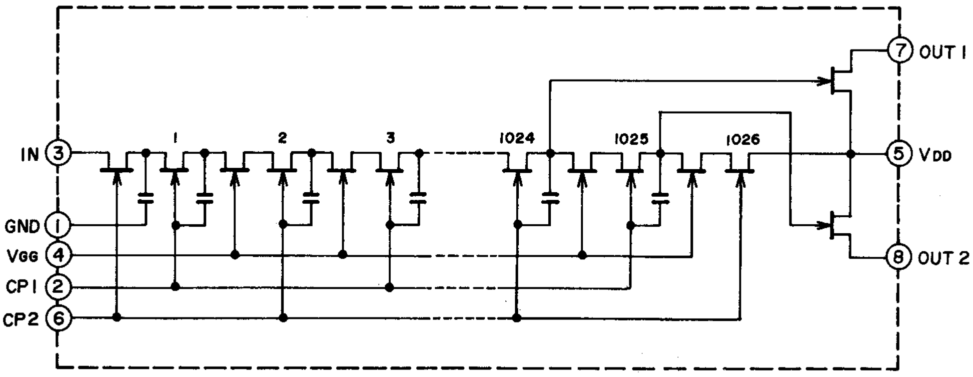
LC7821 (Analogue Function Switch)


L1 ①
L2 ②
L3 ③
L4 ④
L COM1 ⑤
L5 ⑥
L6 ⑦
L COM2 ⑧
L7 ⑨
L8 ⑩
L COM3 ⑪
VDD 19
VSS 16
VEE ⑫
RES 18
S 17
R1 30
R2 29
R3 28
R4 27
R COM1 26
R5 25
R6 24
R COM2 23
R7 22
R8 21
R COM3 20
D1 14
CL 15
CE 13
LEVEL SHIFT
LUTCH
SHIFT RESISTOR
CONTROL

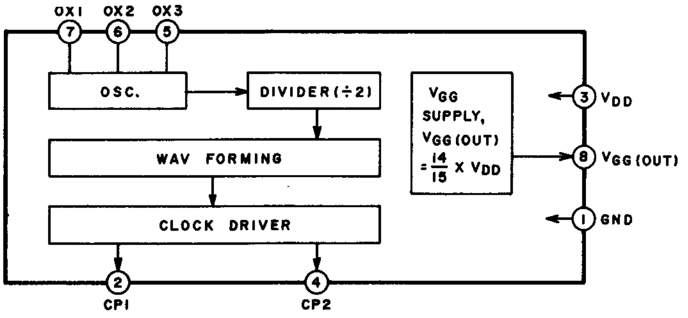
LM7001 (PLL Synthesizer)


SYC ⑥
Xin ②
Xout ①
FMin ⑪
AMin ⑩
PHASE DETECTOR CHARGE PUMP
14 PD1
15 PD2
REFERENCE DIVDER
PROGRAMABLE DIVIDER
12 Vdd 1
13 Vdd 2
16 Vss
REGISTER
LATCH
SHIFT
③ CE
④ CL
⑤ DATA
⑦ BO1
⑧ BO2
⑨ BO3

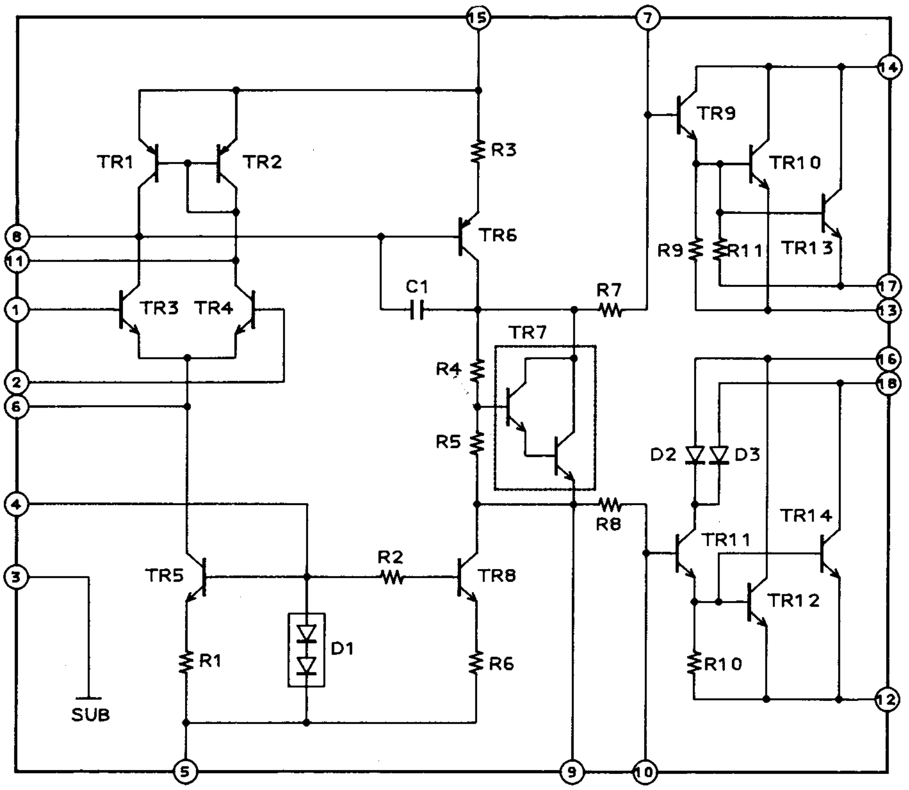
MN3007 (1024 Stage Low Noise BBD)


IN ③
GND ①
VGG ④
CP1 ②
CP2 ⑥
1
2
3
1024
1025
1026
⑦ OUT 1
⑤ VDD
⑧ OUT 2

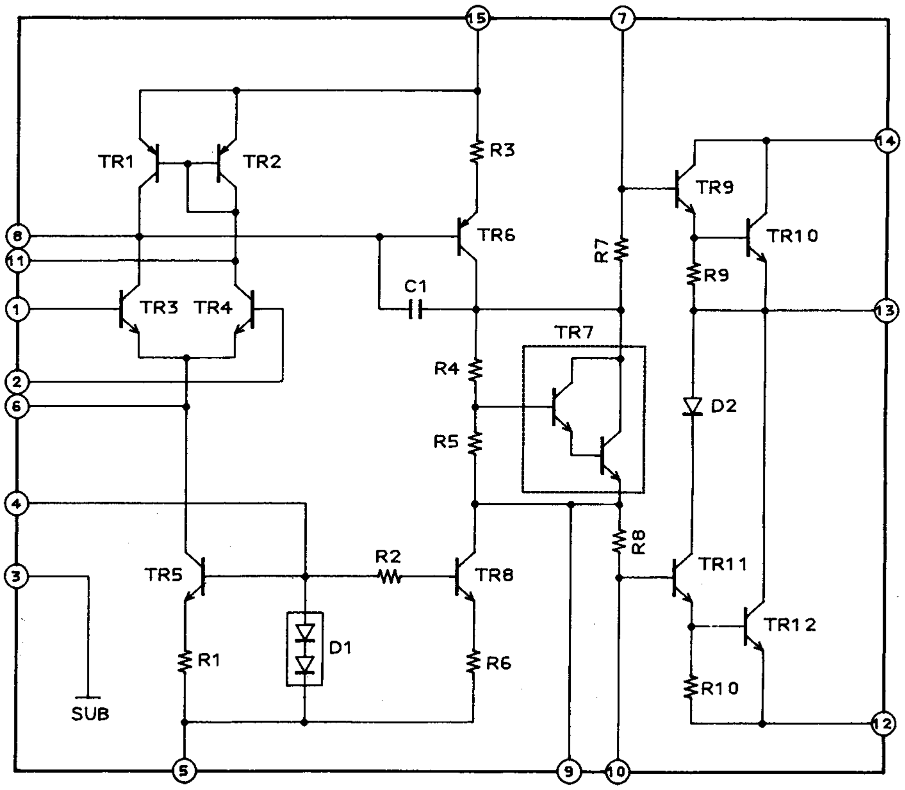
MN3101 (Clock Generator For BBD)


OX1
OX2
OX3
7
6
5
OSC.
DIVIDER(÷2)
WAV FORMING
CLOCK DRIVER
VGG SUPPLY,
VGG(OUT)
= 14/15 X VDD
3 VDD
8 VGG(OUT)
1 GND
2 CP1
4 CP2

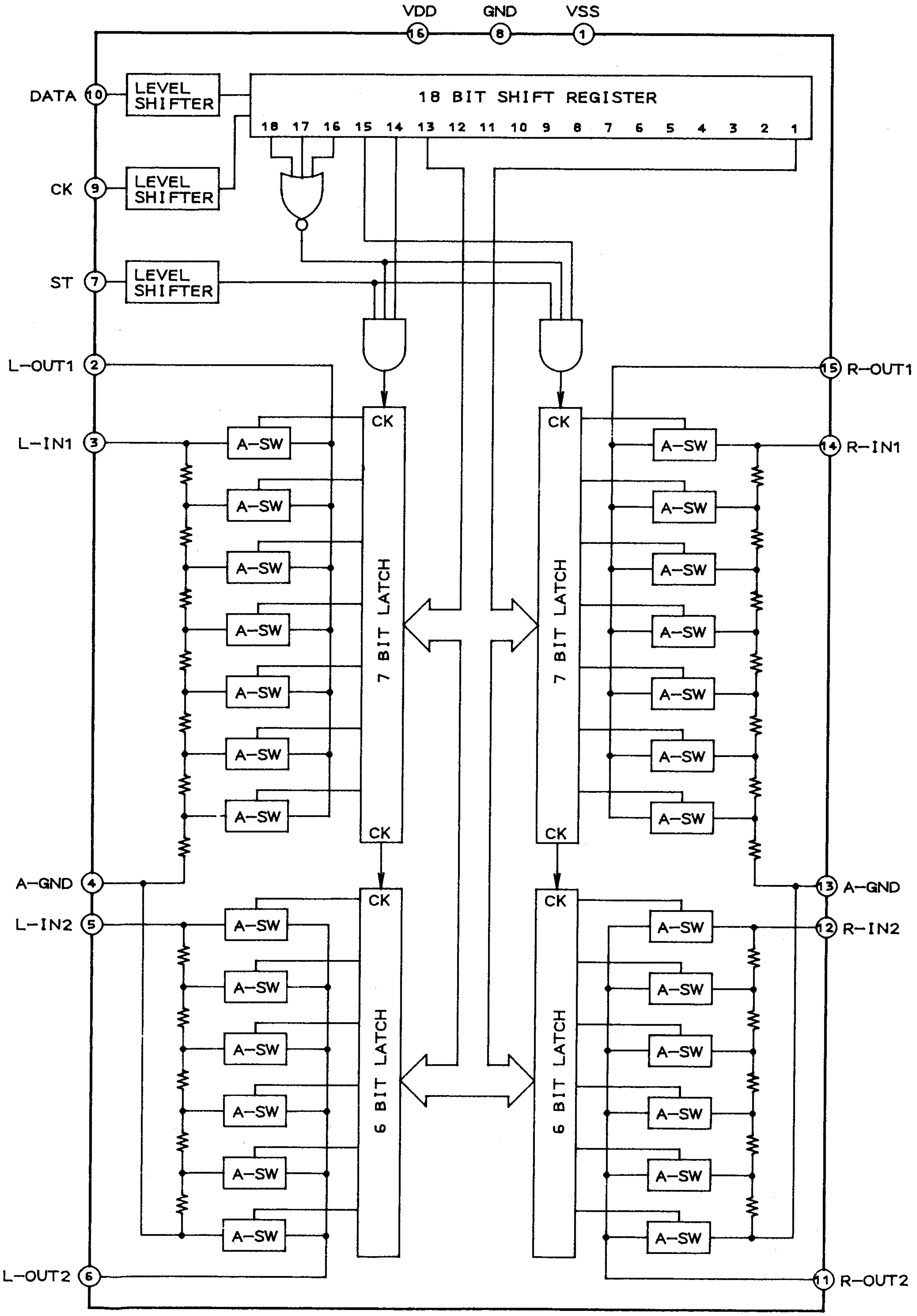
STK4044V (Power Amplifier)


15
7
14
TR1
TR2
TR3
TR4
TR5
TR6
TR7
TR8
TR9
TR10
TR11
TR12
TR13
TR14
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
C1
D1
D2
D3
8
11
1
2
6
4
3
SUB
17
13
16
18
12
5
9
10

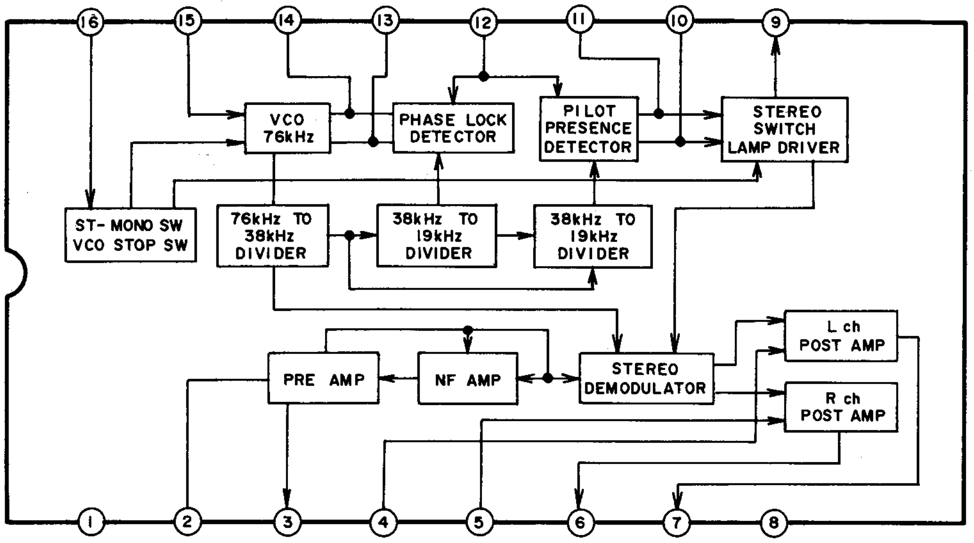
STK4046V (Power Amplifier)


15
7
14
TR1
TR2
TR3
TR4
TR5
TR6
TR7
TR8
TR9
TR10
TR11
TR12
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
C1
D1
D2
8
11
1
2
6
4
3
SUB
13
12
5
9
10

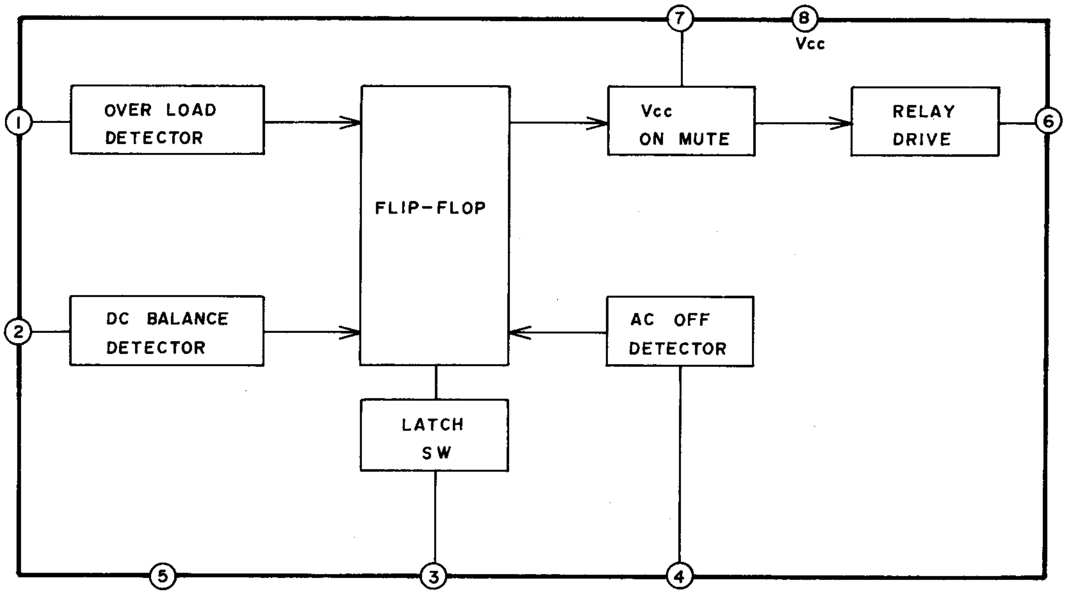
TC9154AP (Electronic Volume)


VDD
GND
VSS
16
8
1
DATA
10
CK
9
ST
7
LEVEL SHIFTER
LEVEL SHIFTER
LEVEL SHIFTER
18 BIT SHIFT REGISTER
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
L-OUT1
2
L-IN1
3
A-GND
4
L-IN2
5
L-OUT2
6
R-OUT1
15
R-IN1
14
A-GND
13
R-IN2
12
R-OUT2
11
CK
7 BIT LATCH
CK
6 BIT LATCH
A-SW

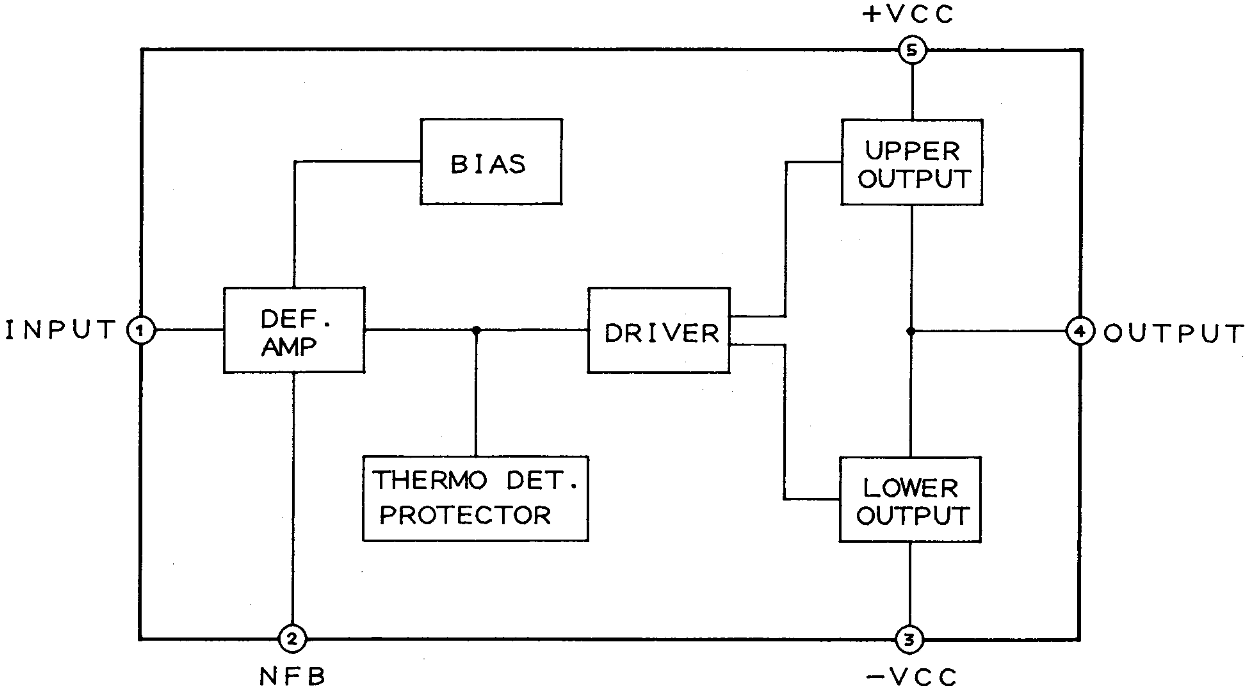
μPC1235C (Stereo MPX)

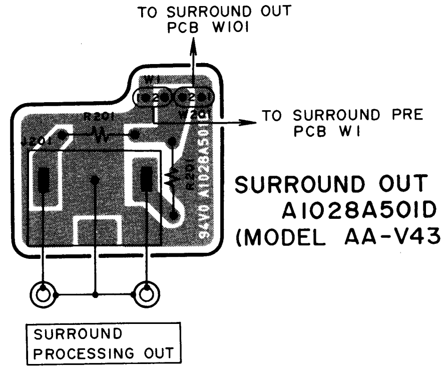

16
15
14
13
12
11
10
9
VCO 76kHz
PHASE LOCK DETECTOR
PILOT PRESENCE DETECTOR
STEREO SWITCH LAMP DRIVER
ST-MONO SW VCO STOP SW
76kHz TO 38kHz DIVIDER
38kHz TO 19kHz DIVIDER
38kHz TO 19kHz DIVIDER
L ch POST AMP
PRE AMP
NF AMP
STEREO DEMODULATOR
R ch POST AMP
1
2
3
4
5
6
7
8

μPC1237H (Stereo Power Amp Protector)

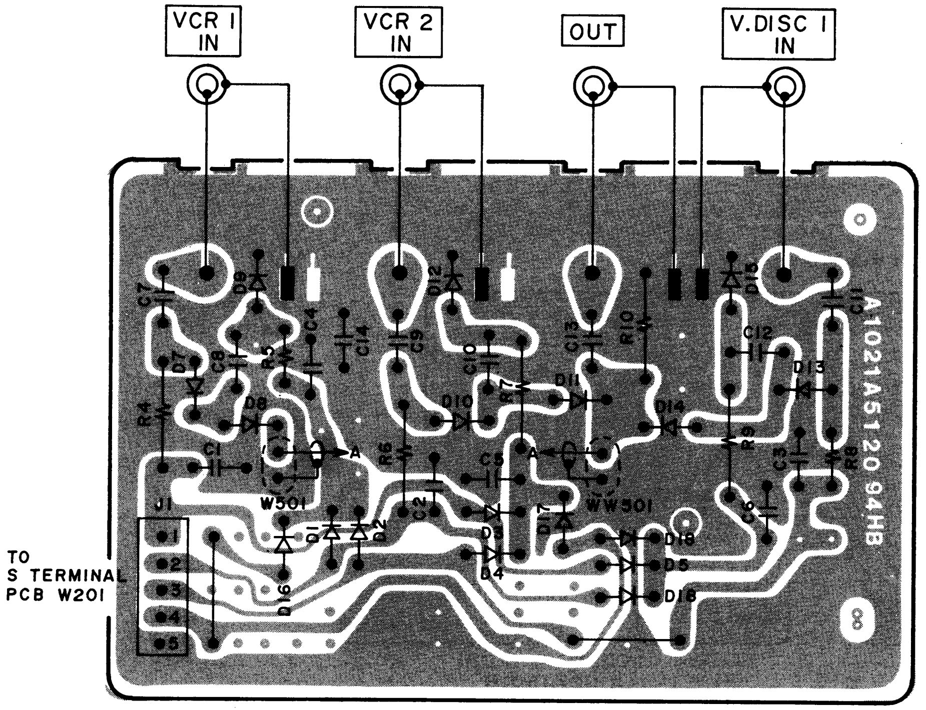

7
8
Vcc
1
OVER LOAD DETECTOR
FLIP-FLOP
Vcc ON MUTE
RELAY DRIVE
6
2
DC BALANCE DETECTOR
AC OFF DETECTOR
LATCH SW
5
3
4

μPC1238 (Power Amplifier)

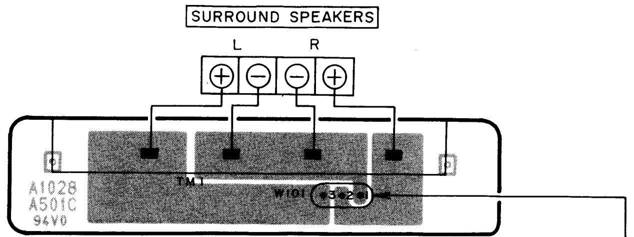

+VCC
5
BIAS
UPPER OUTPUT
INPUT
1
DEF. AMP
DRIVER
4
OUTPUT
THERMO DET. PROTECTOR
LOWER OUTPUT
2
NFB
3
−VCC


TO SURROUND OUT
PCB W101
TO SURROUND PRE
PCB W1
W1
W20
R201
J201
94V0 A1028A501D
SURROUND
PROCESSING OUT

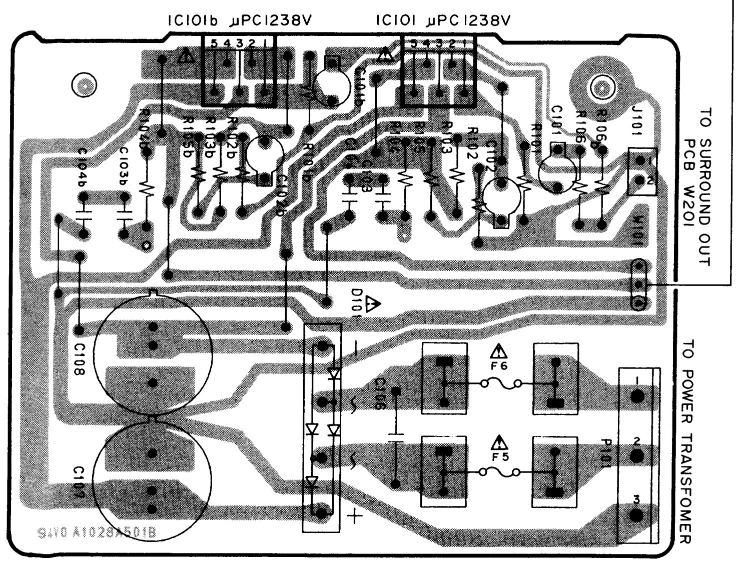
SURROUND OUT PCB
A1028A501D
(MODEL AA-V435 ONLY)


VCR 1
IN
VCR 2
IN
OUT
V.DISC 1
IN
TO
S TERMINAL
PCB W201
J1
W501
WW501
A1021A5120 94HB

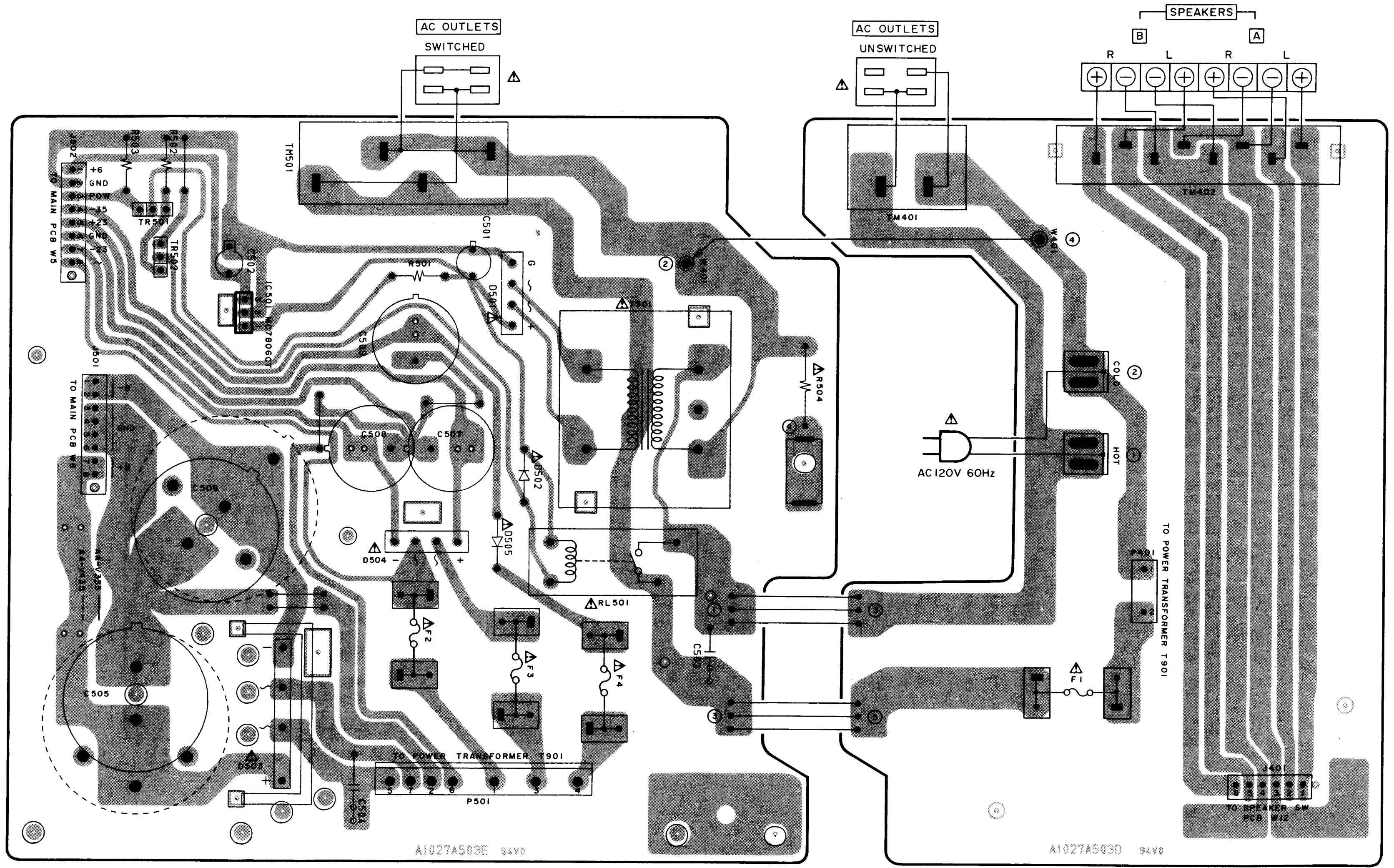
RF PCB A1021A5120


SURROUND SPEAKERS
L
R
TM1
W101
A1028
A501C
94V0

SP TERMINAL (B) PCB
A1028A501C
(MODEL AA-V435 ONLY)


IC101b μPC1238V
IC101 μPC1238V
TO SURROUND OUT
PCB W201
TO POWER TRANSFOMER
J101
W101
D101
C108
C107
F6
F5
P101
94V0 A1028A501B

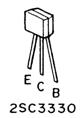
SURROUND MAIN PCB
A1028A501B
(MODEL AA-V435 ONLY)


AC OUTLETS
SWITCHED
AC OUTLETS
UNSWITCHED
SPEAKERS
B
A
R
L
R
L
TM501
TO MAIN PCB W5
TO MAIN PCB W6
TR501
TR502
IC501
C501
R501
D501
T901
C506
C508
C507
D502
R504
D504
D505
RL501
C505
C504
D503
F2
F3
F4
TO POWER TRANSFORMER T901
P501
TM401
TM402
W401
COLD
HOT
AC120V 60Hz
F1
P401
TO POWER TRANSFORMER T901
J401
TO SPEAKER SW
PCB W12
A1027A503E 94V0
A1027A503D 94V0

POWER SUPPLY PCB A1027A503E

SP TERMINAL (A) PCB A1027A503D

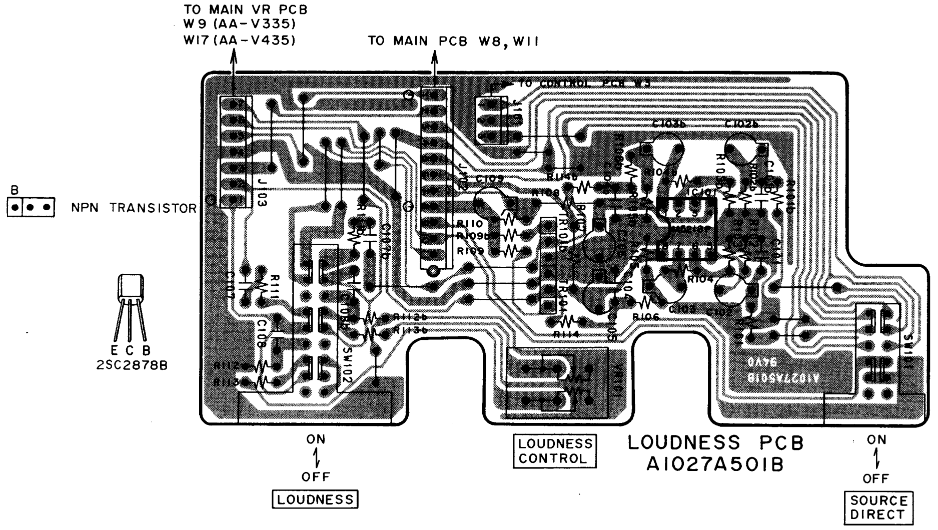
NPN TRANSISTOR



2SC3330
DTC114TS

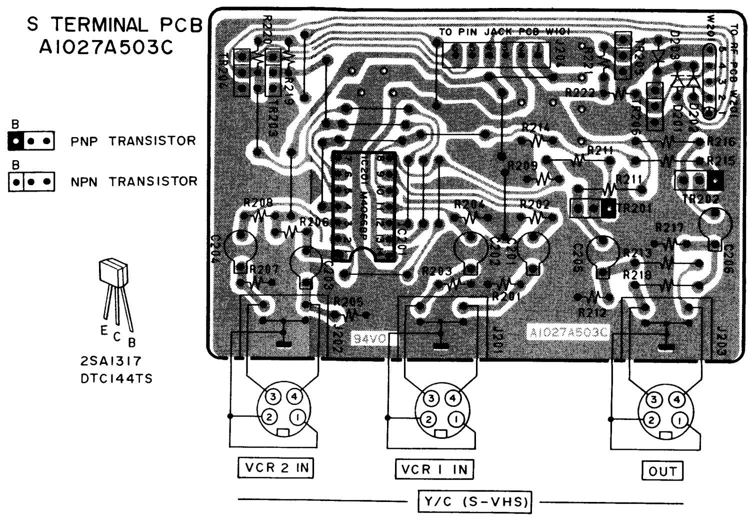
WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

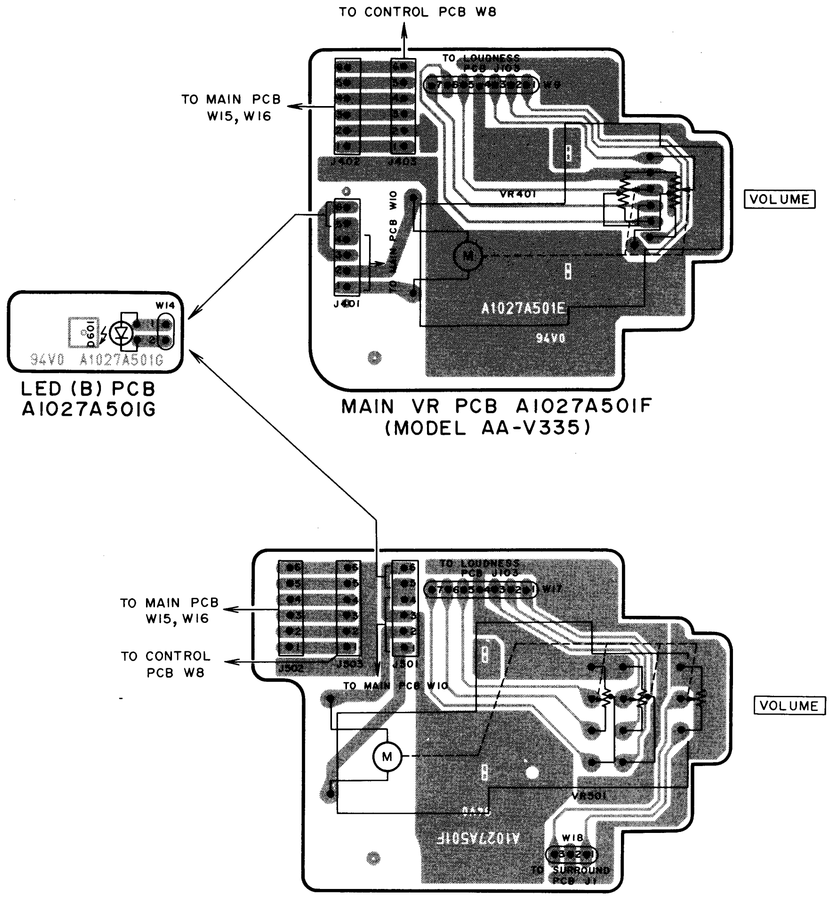
AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


TO MAIN VR PCB
W9 (AA-V335)
W17 (AA-V435)
TO MAIN PCB W8, W11
TO CONTROL PCB W3
B
NPN TRANSISTOR
E C B
2SC2878B
ON
OFF
LOUDNESS
LOUDNESS CONTROL
ON
OFF
SOURCE DIRECT
A1027A501B
94V0

LOUDNESS PCB A1027A501B

S TERMINAL PCB A1027A503C

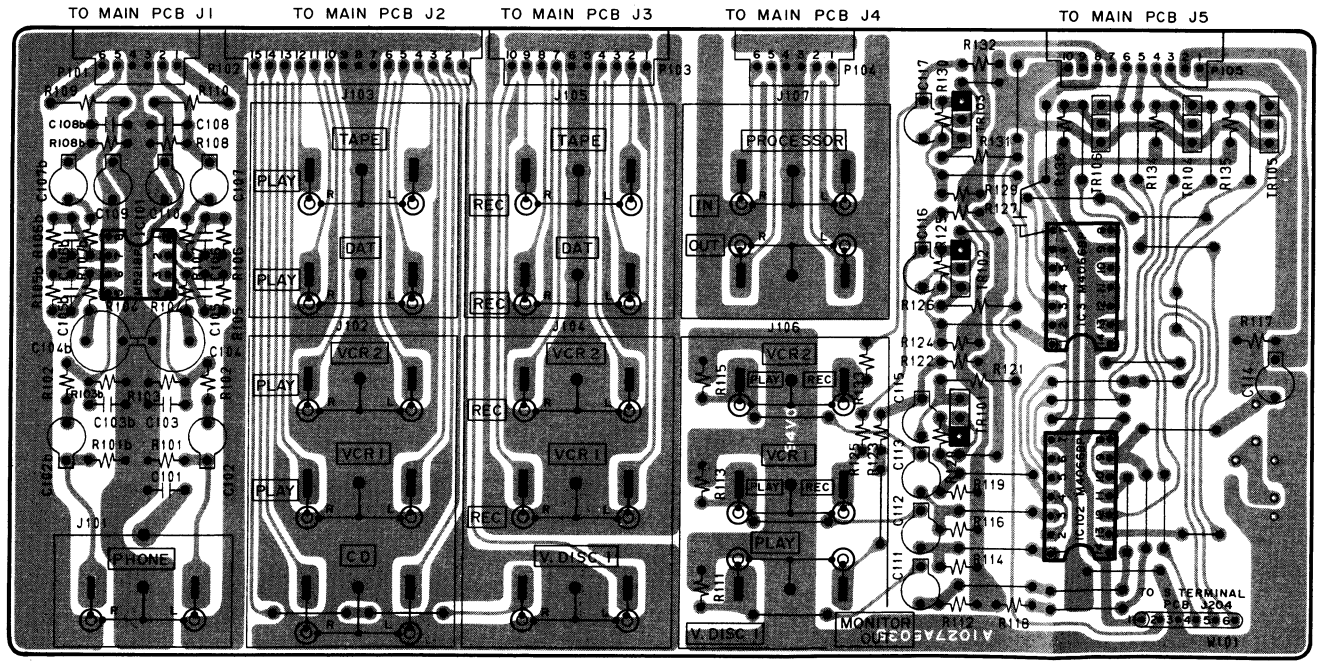

B
PNP TRANSISTOR
B
NPN TRANSISTOR
E C B
2SA1317
DTC144TS
TO PIN JACK PCB W101
A1027A503C
94V0
VCR 2 IN
VCR 1 IN
OUT
Y/C (S-VHS)


TO CONTROL PCB W8
TO MAIN PCB
W15, W16
TO LOUDNESS PCB J103
VR401
VOLUME
A1027A501E
94V0
94V0 A1027A501G
W14
TO MAIN PCB
W15, W16
TO CONTROL
PCB W8
TO LOUDNESS PCB J103
W17
TO MAIN PCB W10
VOLUME
VR501
A1027A501F
TO SURROUND PCB J1
W18

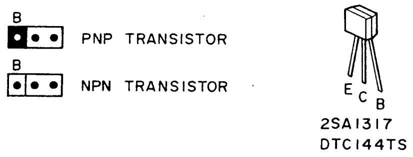
LED (B) PCB
A1027A501G

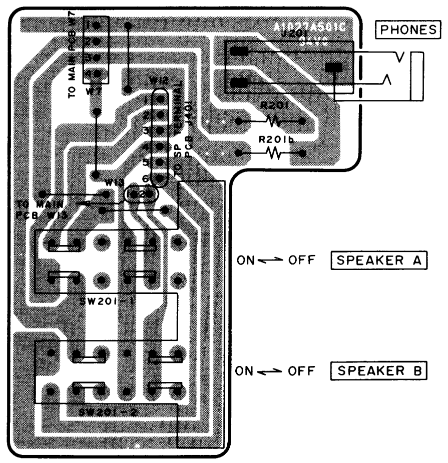
MAIN VR PCB A1027A501F
(MODEL AA-V335)

MAIN VR PCB A1027A501E
(MODEL AA-V435)


TO MAIN PCB J1
TO MAIN PCB J2
TO MAIN PCB J3
TO MAIN PCB J4
TO MAIN PCB J5
J103
J105
J107
TAPE
PLAY
REC
DAT
PROCESSOR
IN
OUT
VCR 2
VCR 1
CD
V. DISC 1
V. DISC 1
MONITOR
PHONE
TO S TERMINAL PCB J204
A1027A503B

PIN JACK PCB A1027A503B

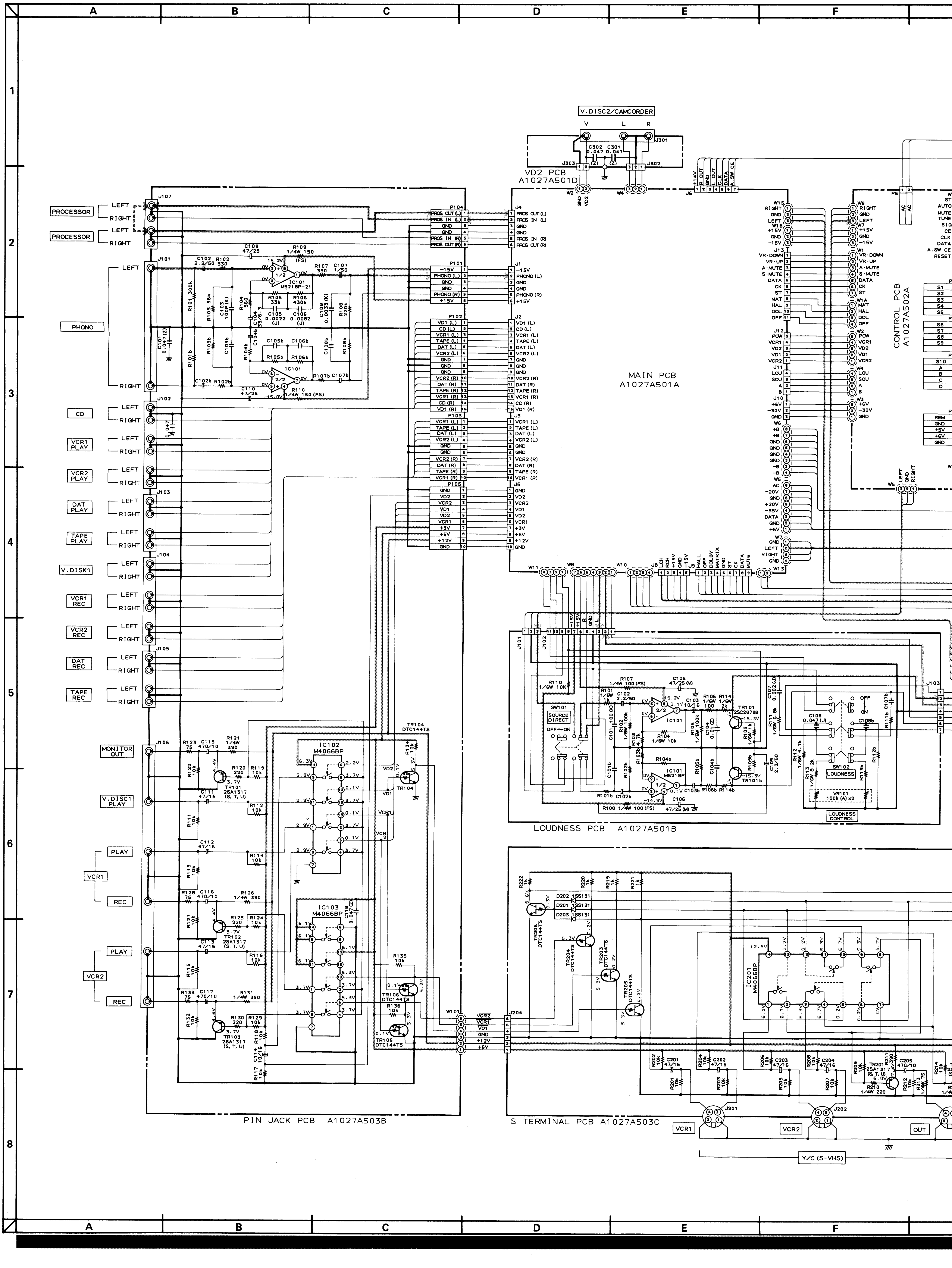

B
PNP TRANSISTOR
B
NPN TRANSISTOR
E C B
2SA1317
DTC144TS

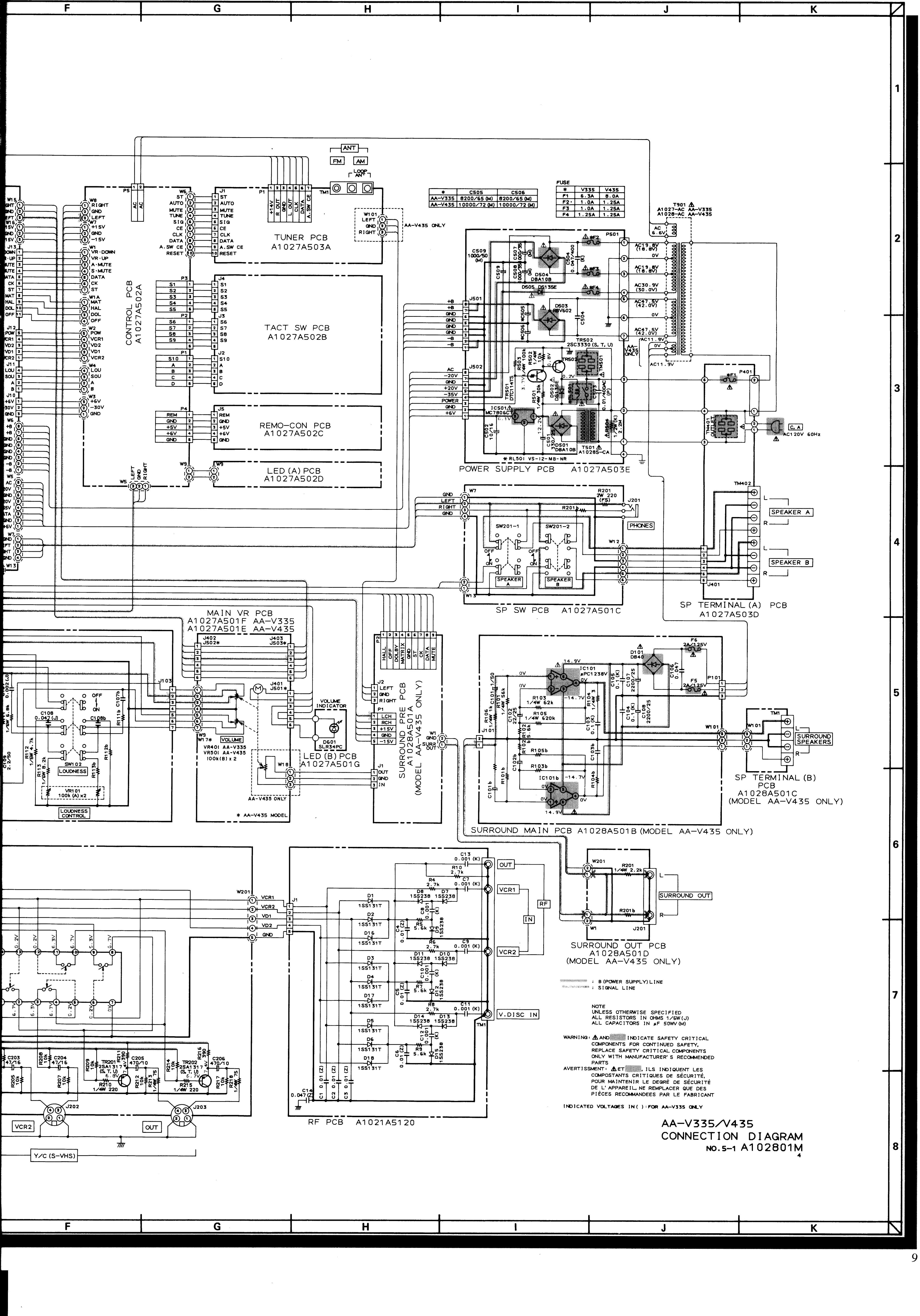

A1027A501C
PHONES
TO MAIN PCB W15
R201
R201b
ON OFF
SPEAKER A
ON OFF
SPEAKER B
SW201-1
SW201-2

SPEAKER SW PCB
A1027A501C

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT


A
B
C
D
E
F
1
2
3
4
5
6
7
8
V.DISC2/CAMCORDER
V
L
R
J301
J302
J303
C302 0.047
C301 0.047
VD2 PCB
A1027A501D
W2
W4
J6
+14V
R OUT
GND
L OUT
CLK
DATA
A.SW CE
PROCESSOR
LEFT
RIGHT
J107
P104
PROS OUT (L)
PROS IN (L)
GND
PROS IN (R)
PROS OUT (R)
J4
PHONO
J101
C102 2.2/50
R102 330
C109 47/25
R109 1/4W 150 (FS)
IC101 M5218P-21
R107 330
C107 1/50
R101 300k
R103 56k
C103 100P(K)
R104 560
C104 33/6.3
R105 33k
R106 430k
C105 0.0022 (J)
C106 0.0082 (J)
C108 0.0033(K)
R108 220k
C101 0.047(Z)
C110 47/25
R110 1/4W 150 (FS)
P101
-15V
PHONO (L)
PHONO (R)
+15V
J1
P102
VD1 (L)
CD (L)
VCR1 (L)
TAPE (L)
DAT (L)
VCR2 (L)
VCR2 (R)
DAT (R)
TAPE (R)
VCR1 (R)
CD (R)
VD1 (R)
J2
P103
J3
P105
VD2
VCR2
VD1
VCR1
+3V
+6V
+12V
J5
MAIN PCB
A1027A501A
CONTROL PCB
A1027A502A
CD
J102
VCR1 PLAY
VCR2 PLAY
DAT PLAY
J103
TAPE PLAY
V.DISK1
J104
VCR1 REC
VCR2 REC
DAT REC
J105
TAPE REC
W15
W16
J13
VR·DOWN
VR·UP
A·MUTE
S·MUTE
DATA
CK
ST
MAT
HAL
DOL
OFF
J12
POW
J11
LOU
SOU
J10
+6V
-30V
W8
W7
W1
W1A
W2
W4
W3
W6
W5
AC
+20V
-35V
+B
-B
W13
W11
W9
W10
J8
J9
LCH
RCH
HALL
DOLBY
MATRIX
MUTE
P5
J101
J102
R110 1/6W 10K
SW101
SOURCE DIRECT
OFF↔ON
R107 1/4W 100 (FS)
C105 47/25 (M)
R101 1/6W 1k
C102 2.2/50
C103 10/16
R106 1/6W 100
R114 1/6W 2k
TR101 2SC2878B
IC101
R104 1/6W 10k
R105 1/6W 100k
C104 0.01(Z)
R109 1/6W 1k
C107 0.002(J)
R111 1/6W 6.8k
C108 0.047(J)
SW102
LOUDNESS
R112 1/6W 4.7k
R113 1/6W 8.2k
VR101 100k (A) x2
LOUDNESS CONTROL
IC101 M5218P
TR101b
R108 1/4W 100 (FS)
C106 47/25 (M)
LOUDNESS PCB A1027A501B
J103
MONITOR OUT
J106
R123 75
C115 470/10
R121 1/4W 390
R122 10k
R120 220
R119 10k
TR101 2SA1317 (S, T, U)
C111 47/16
R112 10k
V.DISC1 PLAY
R111 10k
C112 47/16
R114 10k
PLAY
VCR1
REC
R113 10k
R128 75
C116 470/10
R126 1/4W 390
R127 10k
R125 220
R124 10k
TR102 2SA1317 (S, T, U)
C113 47/16
R116 10k
VCR2
R115 10k
R133 75
C117 470/10
R131 1/4W 390
R132 10k
R130 220
R129 10k
TR103 2SA1317 (S, T, U)
R118 10k
C114 10/16
R117 10k
IC102 M4066BP
TR104 DTC144TS
R134 10k
IC103 M4066BP
C118 0.047(Z)
R135 10k
TR106 DTC144TS
R136 10k
TR105 DTC144TS
W101
J204
PIN JACK PCB A1027A503B
S TERMINAL PCB A1027A503C
R222 1k
R220 1k
R219 1k
R221 1k
D202 1SS131
D201 1SS131
D203 1SS131
TR206 DTC144TS
TR204 DTC144TS
TR203 DTC144TS
TR205 DTC144TS
IC201 M4066BP
R202 10k
C201 47/16
R204 10k
C202 47/16
R206 10k
C203 47/16
R208 10k
C204 47/16
R209 10k
TR201 2SA1317 (S, T, U)
R211 1/4W 390
C205 470/10
R201 10k
R203 10k
R205 10k
R207 10k
R210 1/4W 220
R212 10k
R213 75
J201
J202
VCR1
VCR2
OUT
Y/C (S-VHS)


F
G
H
I
J
K
1
2
3
4
5
6
7
8
ANT
FM
AM
LOOP ANT
TM1
TUNER PCB
A1027A503A
CONTROL PCB
A1027A502A
TACT SW PCB
A1027A502B
REMO-CON PCB
A1027A502C
LED (A) PCB
A1027A502D
W101
AA-V435 ONLY
T901 ⚠
A1027-AC AA-V335
A1028-AC AA-V435
P501
POWER SUPPLY PCB A1027A503E
*RL501 VS-12-MB-NR
T501 ⚠ A1028S-CA
P401
TM401 OUTLET
C, A
AC120V 60Hz
TM402
PHONES
SPEAKER A
SPEAKER B
SP SW PCB A1027A501C
SP TERMINAL (A) PCB
A1027A503D
MAIN VR PCB
A1027A501F AA-V335
A1027A501E AA-V435
VOLUME
VOLUME INDICATOR
D601 SLR34PC
LED (B) PCB
A1027A501G
AA-V435 ONLY
* AA-V435 MODEL
VR401 AA-V335
VR501 AA-V435
100k(B) x 2
SW102
LOUDNESS
VR101 100k (A) x2
LOUDNESS CONTROL
SURROUND PRE PCB
A1028A501A
(MODEL AA-V435 ONLY)
SURROUND MAIN PCB A1028A501B (MODEL AA-V435 ONLY)
SURROUND SPEAKERS
SP TERMINAL (B)
PCB
A1028A501C
(MODEL AA-V435 ONLY)
SURROUND OUT
SURROUND OUT PCB
A1028A501D
(MODEL AA-V435 ONLY)
OUT
VCR1
VCR2
RF
IN
V.DISC IN
RF PCB A1021A5120
VCR2
OUT
Y/C (S-VHS)

*	C505	C506
AA-V335	8200/65 (M)	8200/65 (M)
AA-V435	10000/72 (M)	10000/72 (M)

FUSE

*	V335	V435
F1	6.3A	8.0A
F2·	1.0A	1.25A
F3	1.0A	1.25A
F4	1.25A	1.25A

▨ : B (POWER SUPPLY) LINE
▨ : SIGNAL LINE

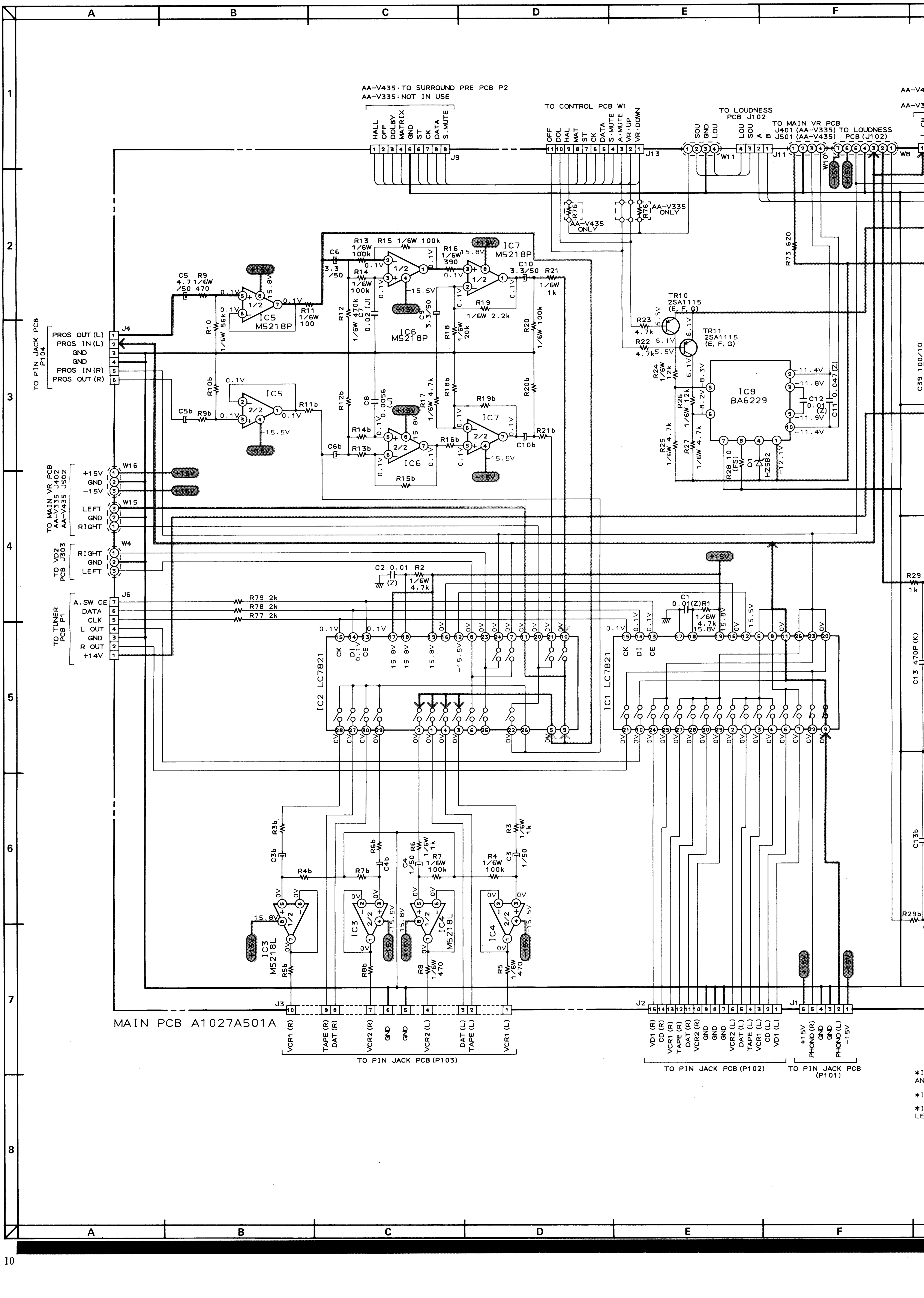
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN µF 50WV (M)

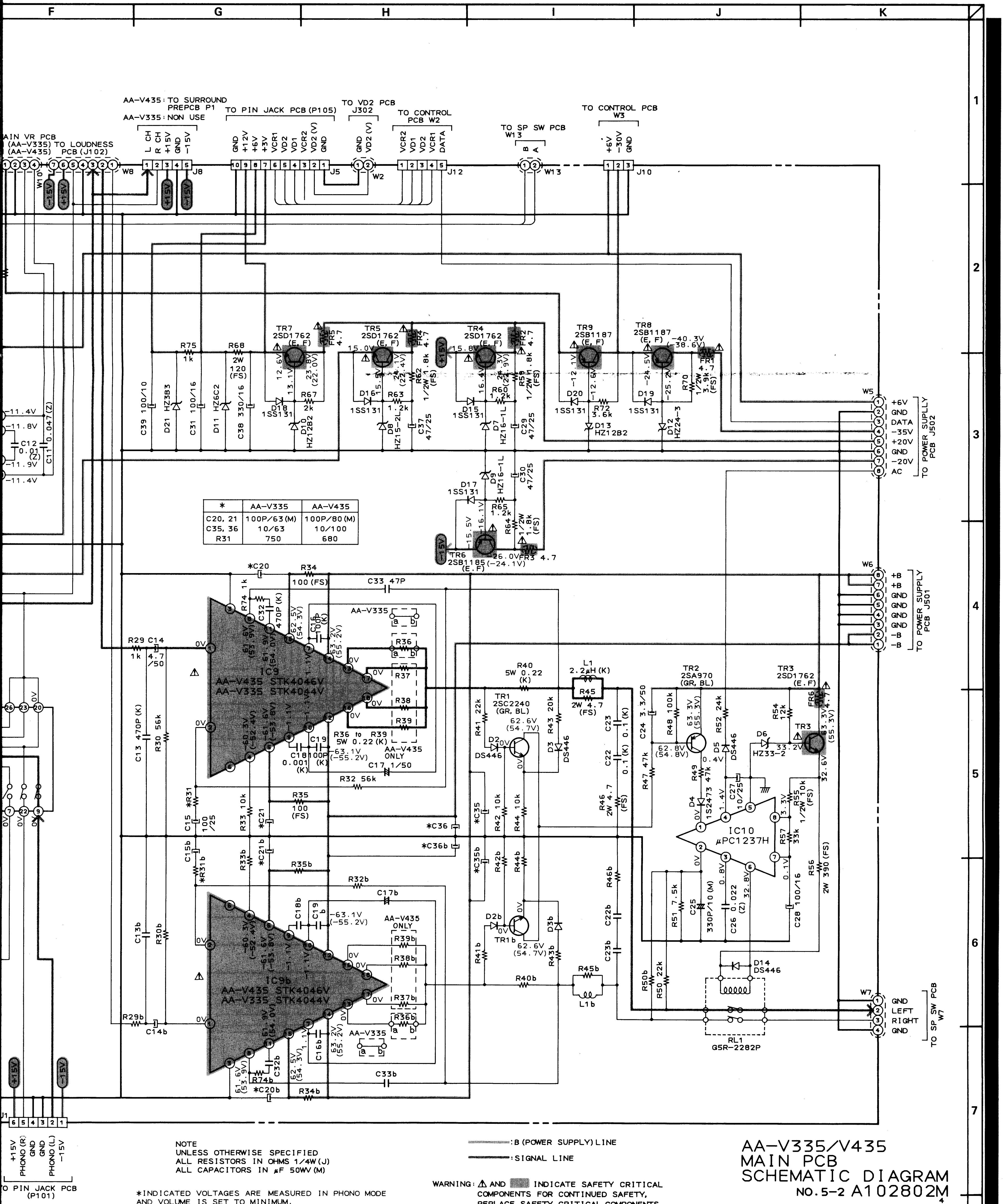
WARNING: ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSMENT: ⚠ ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

INDICATED VOLTAGES IN ( ): FOR AA-V335 ONLY

AA-V335/V435
CONNECTION DIAGRAM
NO.5-1 A102801M
4


AA-V435: TO SURROUND PRE PCB P2
AA-V335: NOT IN USE
HALL
OFF
DOLBY
MATRIX
GND
ST
CK
DATA
S.MUTE
J9
TO CONTROL PCB W1
OFF
DOL
HAL
MAT
ST
CK
DATA
S·MUTE
A·MUTE
VR·UP
VR·DOWN
J13
TO LOUDNESS PCB J102
SOU
GND
LOU
LOU
SOU
A
B
W11
J11
TO MAIN VR PCB
J401 (AA-V335) TO LOUDNESS
J501 (AA-V435) PCB (J102)
W10
W8
+15V
-15V
R76
AA-V435 ONLY
R76
AA-V335 ONLY
R73 620
C6 3.3 /50
R13 1/6W 100k
R15 1/6W 100k
R14 1/6W 100k
R16 1/6W 390
IC7 M5218P
C10 3.3/50
R21 1/6W 1k
R19 1/6W 2.2k
C9 3.3/50
C7 0.02 (J)
R12 1/6W 470k
IC6 M5218P
R18 1/6W 20k
R20 1/6W 100k
C5 R9 4.7 1/6W /50 470
IC5 M5218P
R11 1/6W 100
R10 1/6W 56k
TO PIN JACK PCB P104
PROS OUT (L)
PROS IN (L)
GND
GND
PROS IN (R)
PROS OUT (R)
J4
R10b
IC5
C5b
R9b
R11b
R12b
C8 0.0056 (J)
R17 1/6W 4.7k
R18b
R19b
IC7
R20b
R14b
R13b
C6b
IC6
R15b
R16b
C10b
R21b
TO MAIN VR PCB AA-V335 J402 AA-V435 J502
+15V
GND
-15V
W16
LEFT
GND
RIGHT
W15
TO VD2 PCB J303
RIGHT
GND
LEFT
W4
TO TUNER PCB P1
A.SW CE
DATA
CLK
L OUT
GND
R OUT
+14V
J6
R79 2k
R78 2k
R77 2k
C2 0.01 (Z)
R2 1/6W 4.7k
IC2 LC7821
CK
DI
CE
TR10 2SA1115 (E, F, G)
TR11 2SA1115 (E, F, G)
R23 4.7k
R22 4.7k
R24 1/6W 12k
R26 1/6W 12k
R25 1/6W 4.7k
R27 1/6W 4.7k
IC8 BA6229
C12 0.01 (Z)
C11 0.047 (Z)
R28 10 (FS)
D1
HZS82
-11.4V
-11.8V
-11.9V
-11.4V
-12.1V
C1 0.01(Z)
R1 1/6W 4.7k
IC1 LC7821
R29 1k
R29b
C39 100/10
C13 470P (K)
C13b
R3b
C3b
R4b
R7b
C4b
R6b
C4 1/50
R6 1/6W 1k
R7 1/6W 100k
R4 1/6W 100k
C3 1/50
R3 1/6W 1k
IC3 M5218L
IC3
IC4 M5218L
IC4
R5b
R8b
R8 1/6W 470
R5 1/6W 470
15.8V
-15.5V
0.1V
0V
J3
VCR1 (R)
TAPE (R)
DAT (R)
VCR2 (R)
GND
GND
VCR2 (L)
DAT (L)
TAPE (L)
VCR1 (L)
TO PIN JACK PCB (P103)
J2
VD1 (R)
CD (R)
VCR1 (R)
TAPE (R)
DAT (R)
VCR2 (R)
GND
GND
GND
VCR2 (L)
DAT (L)
TAPE (L)
VCR1 (L)
CD (L)
VD1 (L)
TO PIN JACK PCB (P102)
J1
+15V
PHONO (R)
GND
GND
PHONO (L)
-15V
TO PIN JACK PCB (P101)
MAIN PCB A1027A501A
A
B
C
D
E
F
1
2
3
4
5
6
7
8



F
G
H
I
J
K
1
2
3
4
5
6
7
8
AA-V435 : TO SURROUND PREPCB P1
AA-V335 : NON USE
L CH
R CH
+15V
GND
-15V
W8
J8
TO PIN JACK PCB (P105)
GND
+12V
+6V
+3V
VCR1
VD1
VCR2
VD2 (V)
GND
J5
TO VD2 PCB J302
GND
VD2 (V)
W2
TO CONTROL PCB W2
VCR2
VD1
VD2
VCR1
DATA
J12
TO SP SW PCB W13
B
A
W13
TO CONTROL PCB W3
+6V
-30V
GND
J10
AIN VR PCB (AA-V335) (AA-V435)
TO LOUDNESS PCB (J102)
W10
-15V
+15V
TR7 2SD1762 (E, F)
FR5 4.7
TR5 2SD1762 (E, F)
FR4 4.7
TR4 2SD1762 (E, F)
FR2 4.7
TR9 2SB1187 (E, F)
TR8 2SB1187 (E, F)
FR1
R75 1k
R68 2W 120 (FS)
R67 2k
R63 1.2k
R62 1/2W 1.8k (FS)
R60 1.2k
R59 1/2W 1.8k (FS)
R72 3.6k
R70 1/2W 3.9k (FS)
D18 1SS131
D10 HZ12B2
D16 1SS131
D8 HZ15-2L
D15 1SS131
D7 HZ16-1L
D20 1SS131
D13 HZ12B2
D19 1SS131
D12 HZ24-3
C39 100/10
D21 HZ3B3
C31 100/16
D11 HZ6C2
C38 330/16
C37 47/25
C29 47/25
C30 47/25
D9 HZ16-1L
D17 1SS131
R65 1.2k
R64 1/2W 1.8k (FS)
TR6 2SB1185 (E.F)
FR3 4.7
12.6V
13.1V
23.8V (22.0V)
15.0V
15.8V
16.4V
-12.1V
-12.6V
-24.5V
-25.2V
-40.3V (-38.6V)
-15.5V
-16.1V
-26.0V (-24.1V)
-11.4V
-11.8V
-11.9V
C12 0.01 (Z)
C11 0.047 (Z)
W5
+6V
GND
DATA
-35V
+20V
GND
-20V
AC
TO POWER SUPPLY PCB J502
W6
+B
+B
GND
GND
GND
GND
-B
-B
TO POWER SUPPLY PCB J501
*C20
R34 100 (FS)
C33 47P
R74 1k
C32 470P (K)
62.5V (54.3V)
C16 100P (K)
63.2V (55.2V)
AA-V335
R36
R37
R38
R39
R36 to R39 5W 0.22 (K)
AA-V435 ONLY
R29 1k
C14 4.7/50
IC9 AA-V435 STK4046V AA-V335 STK4044V
0V
61.6V (53.9V)
61.9V (54.0V)
-60.3V (-52.4V)
-61.6V (-53.8V)
-1.1V
C18 0.001 (K)
C19 100P (K)
-63.1V (-55.2V)
C17 1/50
R32 56k
C13 470P (K)
R30 56k
*R31
C15 100/25
R33 10k
*C21
R35 100 (FS)
*C36
*C35
*C36b
*C35b
C15b
*R31b
R33b
*C21b
R35b
R32b
C17b
C18b
C19b
-63.1V (-55.2V)
C13b
R30b
IC9b AA-V435 STK4046V AA-V335 STK4044V
R39b
R38b
R37b
R36b
R29b
C14b
C16b
63.2V (55.2V)
62.5V (54.3V)
61.6V (53.9V)
R74b
C32b
*C20b
R34b
C33b
R40 5W 0.22 (K)
L1 2.2μH (K)
R45 2W 4.7 (FS)
TR1 2SC2240 (GR, BL)
62.6V (54.7V)
R41 22k
D2
DS446
R43 20k
D3 DS446
R42 10k
R44 10k
R42b
R44b
D2b
TR1b
62.6V (54.7V)
D3b
R41b
R43b
R40b
R45b
L1b
C23 0.1 (K)
C22 0.1 (K)
R46 2W 4.7 (FS)
R46b
C22b
C23b
C24 3.3/50
R48 100k
TR2 2SA970 (GR, BL)
63.3V (55.3V)
62.8V (54.8V)
R52 24k
D5 DS446
0.4V
R47 47k
R49 47k
D4 1S2473
C27 10/25
1.4V
TR3 2SD1762 (E.F)
FR6 4.7
R54 12k
D6 HZ33-2
33.2V
63.3V (55.3V)
32.6V
IC10 μPC1237H
3.3V
R55 1/2W 10k (FS)
R57 33k
0.8V
0.1V
R56 2W 390 (FS)
R51 7.5k
C25 330P/10 (M)
C26 0.022 (Z)
32.8V
C28 100/16
R50b 22k
R50
D14 DS446
RL1 G5R-2282P
W7
GND
LEFT
RIGHT
GND
TO SP SW PCB W7
+15V
-15V
J1
+15V
PHONO (R)
GND
GND
PHONO (L)
-15V
TO PIN JACK PCB (P101)

*	AA-V335	AA-V435
C20, 21	100P/63 (M)	100P/80 (M)
C35, 36	10/63	10/100
R31	750	680

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50WV (M)

*INDICATED VOLTAGES ARE MEASURED IN PHONO MODE AND VOLUME IS SET TO MINIMUM.

*INDICATED VOLTAGES IN ( ) FOR MODEL AA-V335.

*INDICATED SIGNAL·LINE IS IN PHONO MODE AND LEFT CHANNEL ONLY.

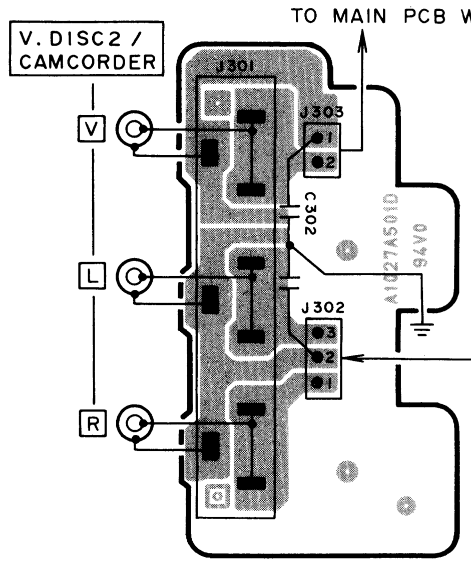
▬ : B (POWER SUPPLY) LINE

▬ : SIGNAL LINE

WARNING : ⚠ AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

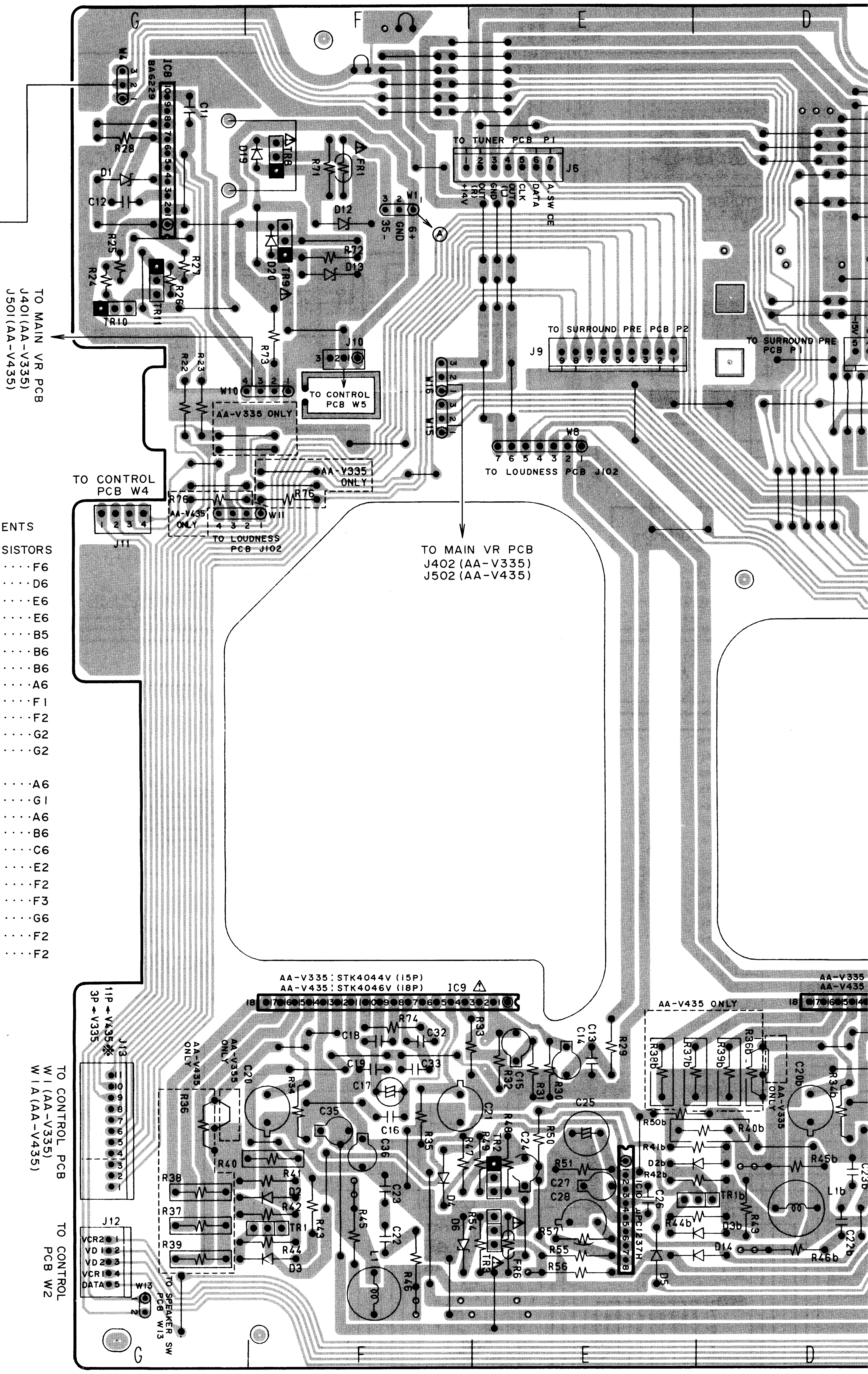
AVERTISSMENT : ⚠ ET ▨ , ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

AA-V335/V435
MAIN PCB
SCHEMATIC DIAGRAM
NO.5-2 A102802M4



TO MAIN PCB W2
V. DISC2 / CAMCORDER
J301
J303
J302
C302
V
L
R
A1027A501D

VD2 PCB
A1027A501D



G
F
E
D
W4
IC8 BA6229
C11
R28
D1
C12
R25
R24
R27
R26
TR10
TR11
D19
TR8
R71
FR1
W1
GND
35-
6+
D12
R72
D13
TR9
D20
R73
TO TUNER PCB P1
J6
+14V
OUT (R)
GND
OUT (L)
CLK
DATA
A.SW
CE
TO SURROUND PRE PCB P2
J9
TO SURROUND PRE PCB P1
-15V
TO MAIN VR PCB J401 (AA-V335) J501 (AA-V435)
R22
R23
W10
J10
TO CONTROL PCB W5
AA-V335 ONLY
W16
W15
W8
TO LOUDNESS PCB J102
TO CONTROL PCB W4
J11
R78
AA-V435 ONLY
W11
TO LOUDNESS PCB J102
R76
AA-V335 ONLY
TO MAIN VR PCB J402 (AA-V335) J502 (AA-V435)
AA-V335 : STK4044V (15P)
AA-V435 : STK4046V (18P)
IC9
11P ← V435 ※
3P ← V335
J13
TO CONTROL PCB W1 (AA-V335) W1A (AA-V435)
J12
VCR2
VD1
VD2
VCR1
DATA
TO CONTROL PCB W2
W13
TO SPEAKER SW PCB W13
AA-V435 ONLY
AA-V335 ONLY
R36
C20
R34
C18
R74
C32
C19
C33
C17
C16
C35
C36
R35
R33
R32
C15
C14
C13
R29
R31
R30
C21
R48
R49
R47
TR2
C24
R50
C25
R51
C27
C28
C26
IC10 μPC1237H
R40
R41
R42
R38
R37
R39
D2
TR1
R43
R44
D3
R45
C23
C22
L1
R46
D4
D6
R54
TR3
FR6
R57
R55
R56
D5
AA-V435 ONLY
R38b
R37b
R39b
R36b
C20b
AA-V335 ONLY
R34b
R50b
R40b
R41b
D2b
R42b
TR1b
R44b
D3b
R43
D14
R45b
L1b
R46b
C22b
C23b
AA-V335
AA-V435

MAIN PCB A1027A501A

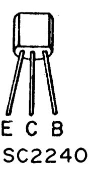
LOCATION OF COMPONENTS

ICS		TRANSISTORS	
IC1	A3	TR1	F6
IC2	C3	TR1b	D6
IC3	A4	TR2	E6
IC4	A4	TR3	E6
IC5	B5	TR4	B5
IC6	B1	TR5	B6
IC7	C1	TR6	B6
IC8	G1	TR7	A6
IC9	F5	TR8	F1
IC9b	C5	TR9	F2
IC10	E6	TR10	G2
		TR11	G2

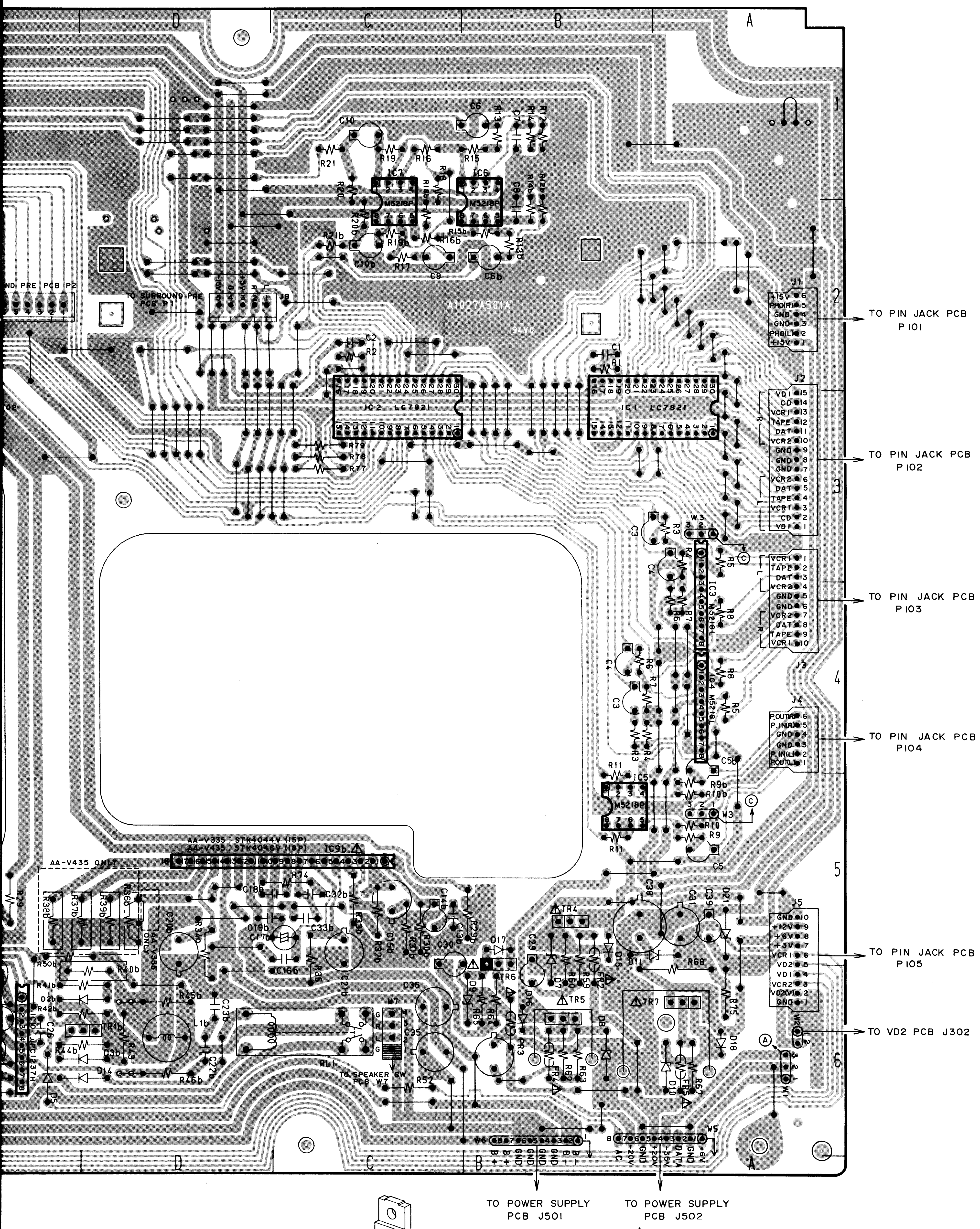
CONNECTORS			
J1	A2	W2	A6
J2	A3	W4	G1
J3	A4	W5	A6
J4	A4	W6	B6
J5	A5	W7	C6
J6	E1	W8	E2
J8	D2	W10	F2
J9	E2	W11	F3
J10	F2	W13	G6
J11	G3	W15	F2
J12	G6	W16	F2
J13	G6		

B ■•• PNP TRANSISTOR

B •|•|• NPN TRANSISTOR

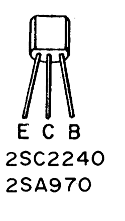


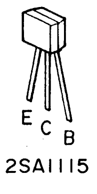
2SC2240
2SA970

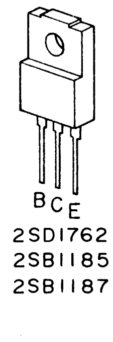

D
C
B
A
1
2
3
4
5
6
A1027A501A
94V0
TO SURROUND PRE PCB P1
ND PRE PCB P2
J8
-15V
GND
+5V
R
GND
L
IC7 M5218P
IC6 M5218P
C10
C6
C7
C8
C9
C6b
C10b
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R12b
R13b
R14b
R15b
R16b
R18b
R19b
R20b
R21b
C1
R1
C2
R2
IC2 LC7821
IC1 LC7821
R77
R78
R79
J1
+15V 6
PHO(R) 5
GND 4
GND 3
PHO(L) 2
+15V 1
TO PIN JACK PCB P101
J2
VD1 15
CD 14
VCR1 13
TAPE 12
DAT 11
VCR2 10
GND 9
GND 8
GND 7
VCR2 6
DAT 5
TAPE 4
VCR1 3
CD 2
VD1 1
R
L
TO PIN JACK PCB P102
W3
C3
C4
R3
R4
R5
R6
R7
R8
IC3 M5218L
IC4 M5218L
VCR1 1
TAPE 2
DAT 3
VCR2 4
GND 5
GND 6
VCR2 7
DAT 8
TAPE 9
VCR1 10
TO PIN JACK PCB P103
J3
J4
P.OUT(R) 6
P.IN(R) 5
GND 4
GND 3
P.IN(L) 2
P.OUT(L) 1
TO PIN JACK PCB P104
C
C5b
C5
R9
R9b
R10
R10b
R11
IC5 M5218P
AA-V335 : STK4044V (15P)
AA-V435 : STK4046V (18P)
IC9b ⚠
AA-V435 ONLY
AA-V335 ONLY
R29
R36b
R37b
R38b
R39b
R34b
C20b
R74
C18b
C32b
C19b
C17b
C33b
R33b
R32b
R31b
R30b
C14b
C13b
R29b
C30
C16b
R35
C21b
R50b
R40b
R41b
D2b
R42b
R45b
C23b
TR1b
IC10 μPC1237H
C26
R44b
D3b
R43
L1b
C22b
D14
R46b
D5
C36
W7
C35
RL1
TO SPEAKER SW PCB W7
R52
D17
⚠
TR6
D9
R65
R64
D16
FR3
C29
⚠TR4
D7
R60
R59
FR2
D15
D11
C38
C31
C39
D21
R68
⚠TR5
D8
FR4
R62
R63
⚠TR7
D10
FR5
R67
R75
D18
J5
GND 10
+12V 9
+6V 8
+3V 7
VCR1 6
VD2 5
VD1 4
VCR2 3
VD2(V) 2
GND 1
TO PIN JACK PCB P105
W2
TO VD2 PCB J302
A
W1
W6
B+
B+
GND
GND
GND
GND
B-
B-
W5
AC
-20V
GND
+20V
-35V
DATA
GND
+6V
TO POWER SUPPLY PCB J501
TO POWER SUPPLY PCB J502

P TRANSISTOR

N TRANSISTOR

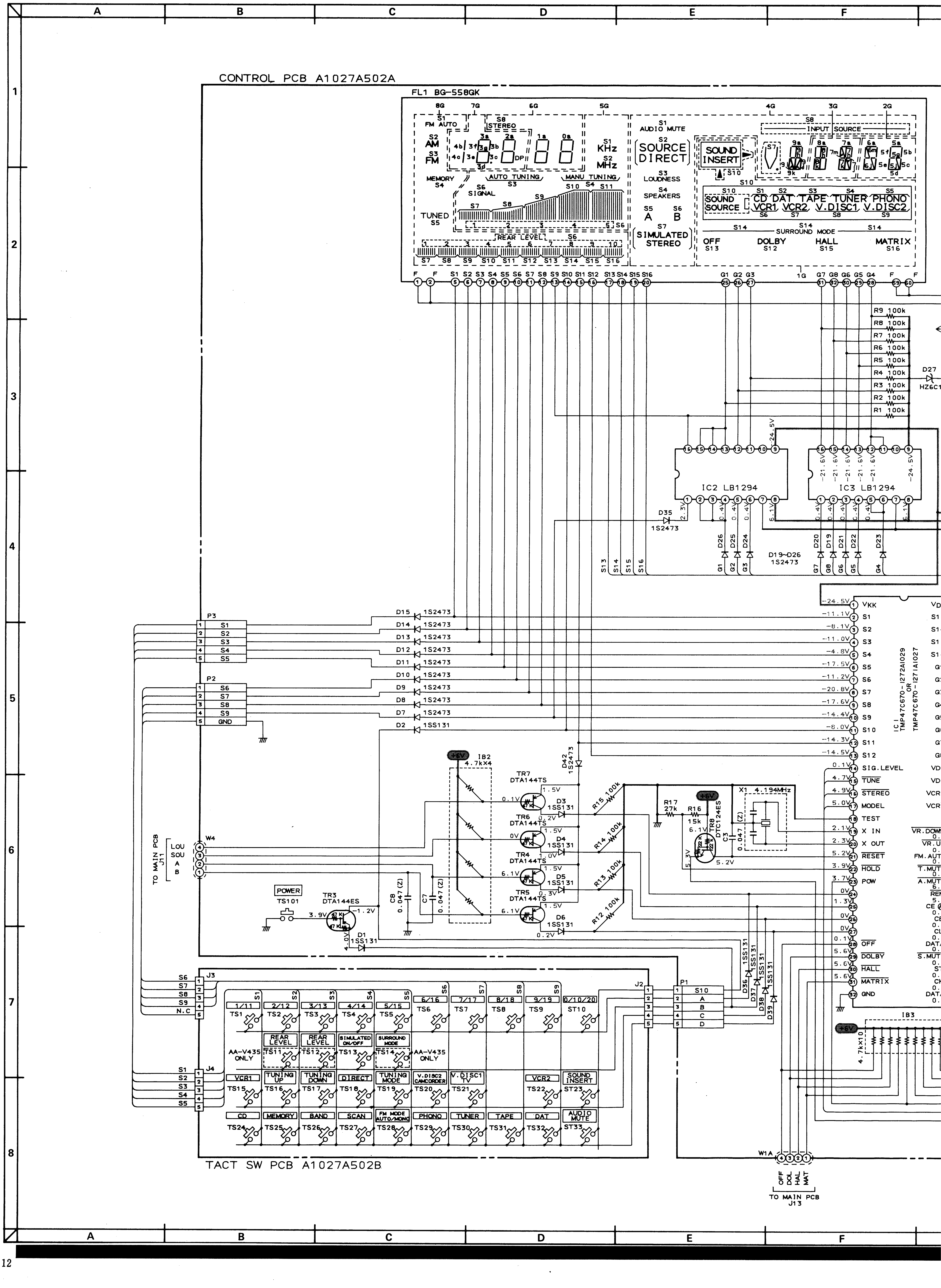

E C B
2SC2240
2SA970

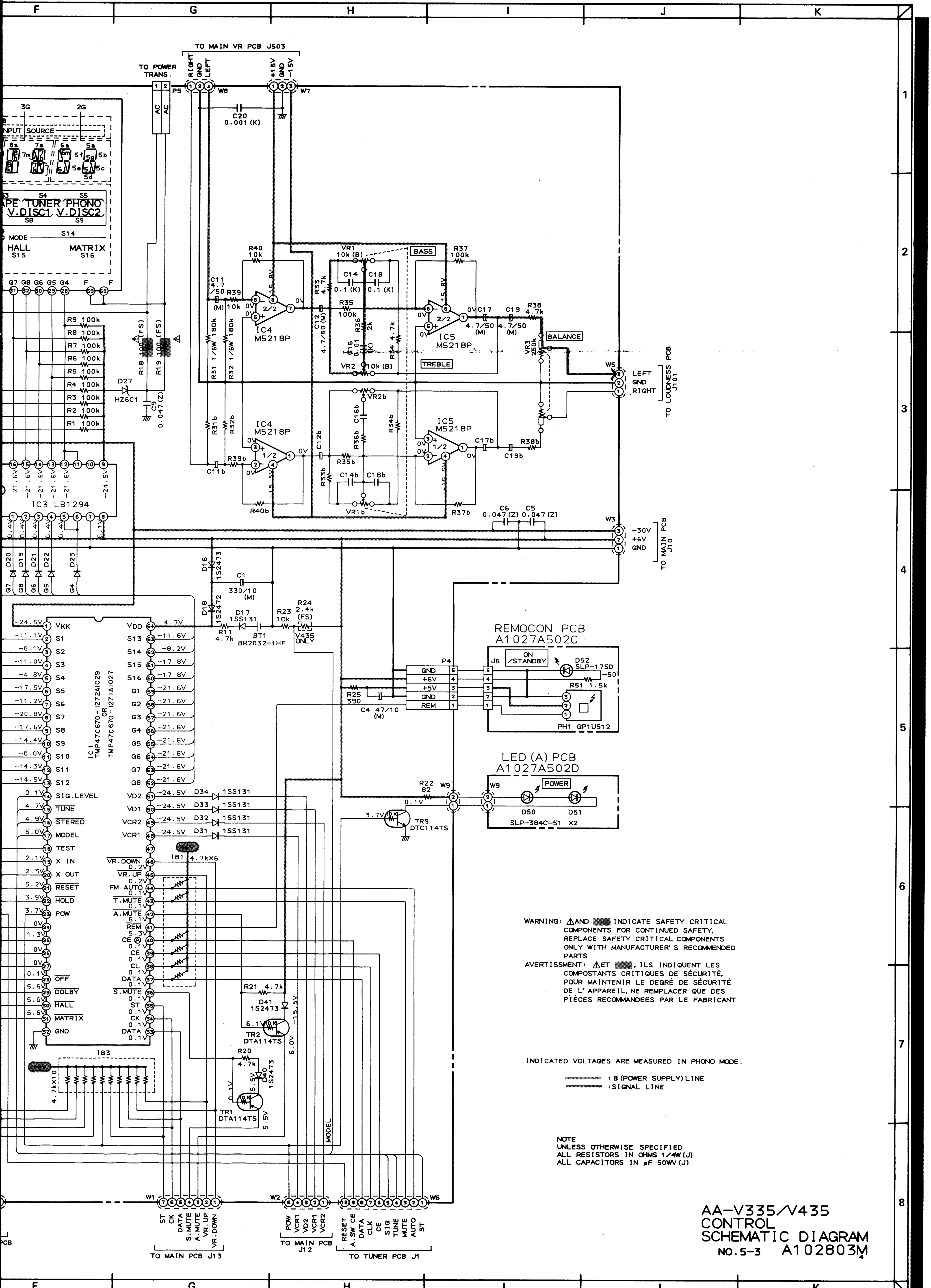

E C B
2SA1115


B C E
2SD1762
2SB1185
2SB1187

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT


CONTROL PCB A1027A502A
FL1 BG-558GK
FM AUTO
STEREO
AM
FM
MEMORY
AUTO TUNING
MANU TUNING
SIGNAL
TUNED
REAR LEVEL
KHz
MHz
AUDIO MUTE
SOURCE DIRECT
LOUDNESS
SPEAKERS
A
B
SIMULATED STEREO
SOUND INSERT
INPUT SOURCE
SOUND SOURCE
CD DAT TAPE TUNER PHONO
VCR1 VCR2 V.DISC1 V.DISC2
SURROUND MODE
OFF
DOLBY
HALL
MATRIX
R9 100k
R8 100k
R7 100k
R6 100k
R5 100k
R4 100k
R3 100k
R2 100k
R1 100k
D27
HZ6C1
IC2 LB1294
IC3 LB1294
D35
1S2473
D19~D26
1S2473
P3
P2
GND
D15 1S2473
D14 1S2473
D13 1S2473
D12 1S2473
D11 1S2473
D10 1S2473
D9 1S2473
D8 1S2473
D7 1S2473
D2 1SS131
D42
1S2473
IC1
TMP47C670-1272A1029
OR
TMP47C670-1271A1027
VKK
SIG.LEVEL
TUNE
STEREO
MODEL
TEST
X IN
X OUT
RESET
HOLD
POW
OFF
DOLBY
HALL
MATRIX
GND
+6V
IB2
4.7kx4
TR7
DTA144TS
TR6
DTA144TS
TR4
DTA144TS
TR5
DTA144TS
D3
1SS131
D4
1SS131
D5
1SS131
D6
1SS131
R15 100k
R14 100k
R13 100k
R12 100k
R17
27k
R16
15k
TR8
DTC124ES
C3
0.047 (Z)
X1 4.194MHz
TO MAIN PCB
J11
LOU
SOU
A
B
W4
POWER
TS101
TR3
DTA144ES
D1
1SS131
C8
0.047 (Z)
C7
0.047 (Z)
D36
D37
D38
D39
1SS131
J3
N.C
J4
J2
P1
S10
A
B
C
D
IB3
4.7kx10
TS1 1/11
TS2 2/12
TS3 3/13
TS4 4/14
TS5 5/15
TS6 6/16
TS7 7/17
TS8 8/18
TS9 9/19
ST10 0/10/20
REAR LEVEL
SIMULATED ON/OFF
SURROUND MODE
AA-V435 ONLY
TS11
TS12
TS13
TS14
VCR1
TUNING UP
TUNING DOWN
DIRECT
TUNING MODE
V.DISC2 CAMCORDER
V.DISC1 TV
VCR2
SOUND INSERT
TS15
TS16
TS17
TS18
TS19
TS20
TS21
TS22
ST23
CD
MEMORY
BAND
SCAN
FM MODE AUTO/MONO
PHONO
TUNER
TAPE
DAT
AUDIO MUTE
TS24
TS25
TS26
TS27
TS28
TS29
TS30
TS31
TS32
ST33
W1A
OFF
DOL
HAL
MAT
TO MAIN PCB
J13
TACT SW PCB A1027A502B


TO MAIN VR PCB J503
TO POWER TRANS.
RIGHT GND LEFT
+15V GND -15V
P5 W8 W7
C20 0.001 (K)
INPUT SOURCE
TAPE TUNER PHONO
V.DISC1 V.DISC2
MODE
HALL MATRIX
S15 S16
R40 10k
R37 100k
VR1 10k (B)
BASS
TREBLE
BALANCE
IC4 M5218P
IC5 M5218P
VR2 10k (B)
VR3 250k
R38 4.7k
C17 4.7/50 (M)
C19 4.7/50 (M)
C11 4.7/50 (M)
R39 10k
R18 100 (FS)
R19 100 (FS)
D27 HZ6C1
C9 0.047 (Z)
R9 100k
R8 100k
R7 100k
R6 100k
R5 100k
R4 100k
R3 100k
R2 100k
R1 100k
IC3 LB1294
W5 LEFT GND RIGHT
TO LOUDNESS PCB J101
W3 -30V +6V GND
TO MAIN PCB J10
C6 0.047 (Z)
C5 0.047 (Z)
D16 1S2473
D18 1S2472
C1 330/10 (M)
D17 1SS131
R11 4.7k
BT1 BR2032-1HF
R23 10k
R24 2.4k (FS)
V435 ONLY
IC1 TMP47C670-1272A1029 OR TMP47C670-1271A1027
REMOCON PCB A1027A502C
ON /STANDBY
D52 SLP-175D
R51 1.5k
PH1 GP1U512
P4 J5
GND +6V +5V GND REM
R25 390
C4 47/10 (M)
LED (A) PCB A1027A502D
POWER
R22 82
W9
D50 D51
SLP-384C-51 ×2
TR9 DTC114TS
D34 D33 D32 D31 1SS131
IB1 4.7k×6
IB3 4.7k×10
R21 4.7k
D41 1S2473
TR2 DTA114TS
R20 4.7k
D40 1S2473
TR1 DTA114TS
MODEL
W1 ST CK DATA S.MUTE A.MUTE VR.UP VR.DOWN
TO MAIN PCB J13
W2 POW VCR1 VD2 VCR1 VCR2
TO MAIN PCB J12
W6 RESET A.SW CE DATA CLK CE SIG TUNE MUTE AUTO ST
TO TUNER PCB J1
F G H I J K
1 2 3 4 5 6 7 8

WARNING: ⚠AND ▨ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

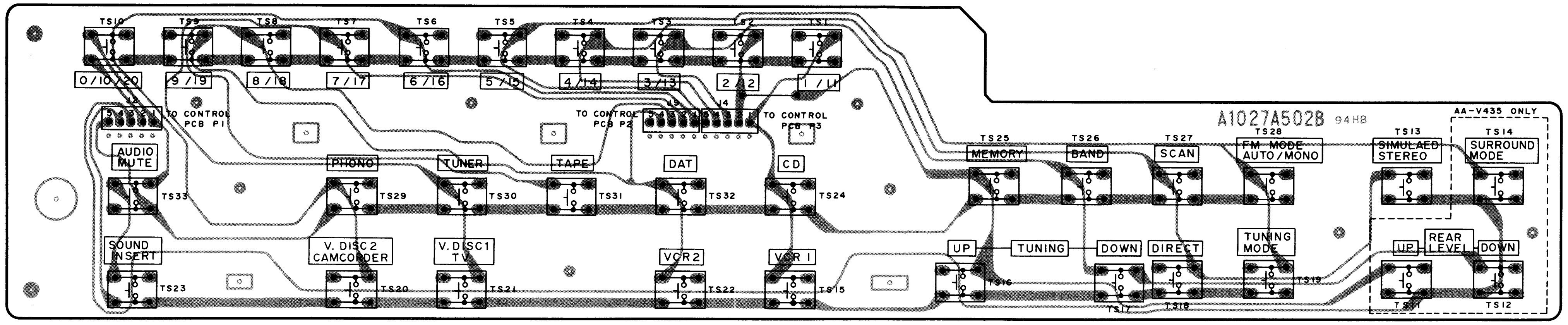
AVERTISSMENT: ⚠ET ▨, ILS INDIQUENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT

INDICATED VOLTAGES ARE MEASURED IN PHONO MODE.

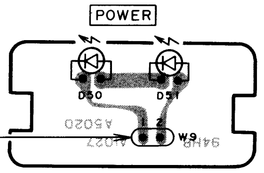
▬ : B (POWER SUPPLY) LINE
▬ : SIGNAL LINE

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/4W (J)
ALL CAPACITORS IN μF 50WV (J)

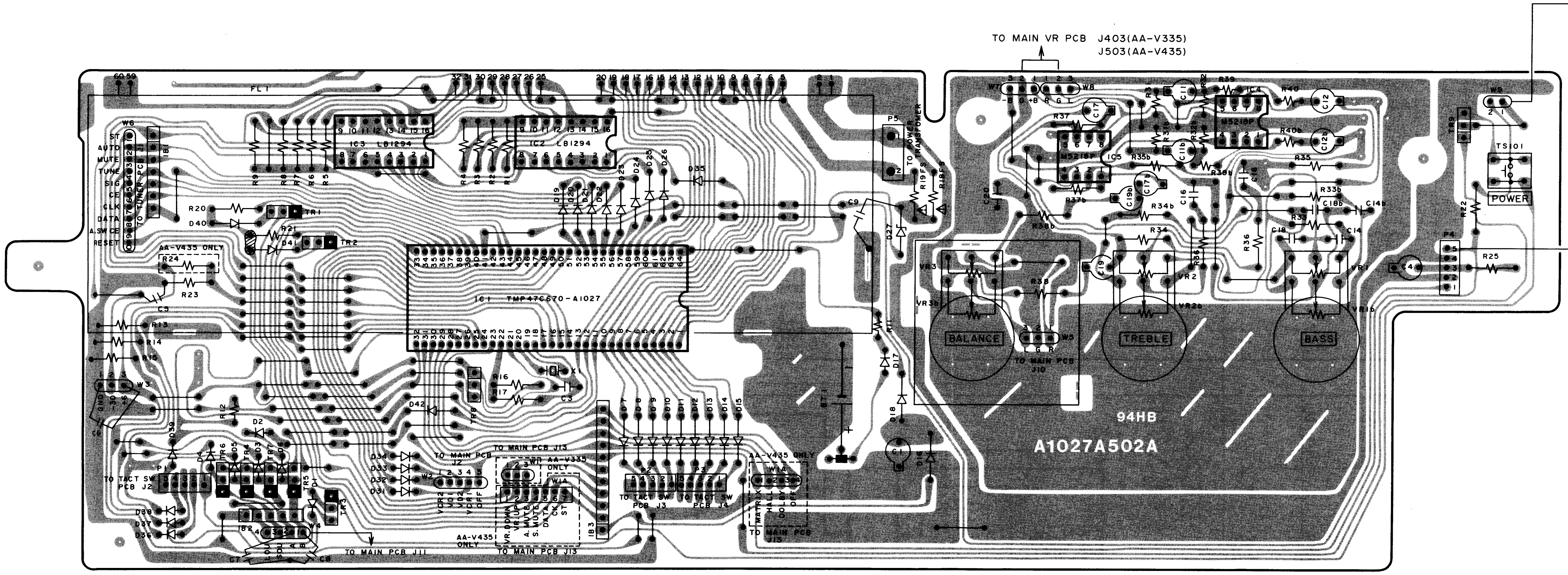
AA-V335/V435
CONTROL
SCHEMATIC DIAGRAM
NO.5-3 A102803M


TS10
TS9
TS8
TS7
TS6
TS5
TS4
TS3
TS2
TS1
0/10/20
9/19
8/18
7/17
6/16
5/15
4/14
3/13
2/12
1/11
TO CONTROL PCB P1
TO CONTROL PCB P2
TO CONTROL PCB P3
A1027A502B 94HB
AA-V435 ONLY
AUDIO MUTE
PHONO
TUNER
TAPE
DAT
CD
TS33
TS29
TS30
TS31
TS32
TS24
TS25
TS26
TS27
TS28
TS13
TS14
MEMORY
BAND
SCAN
FM MODE AUTO/MONO
SIMULAED STEREO
SURROUND MODE
SOUND INSERT
V. DISC2 CAMCORDER
V. DISC1 TV
VCR2
VCR I
UP
TUNING
DOWN
DIRECT
TUNING MODE
UP
REAR LEVEL
DOWN
TS23
TS20
TS21
TS22
TS15
TS16
TS17
TS18
TS19
TS11
TS12

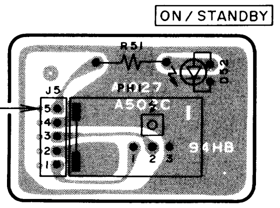
TACT SW PCB A1027A502B


POWER
D50
D51
W9

LED (A) PCB
V1027A502D


TO MAIN VR PCB J403(AA-V335)
J503(AA-V435)
FL1
IC3 LB1294
IC2 LB1294
IC1 TMP47C670-A1027
IC4 M5218P
IC5 M5218P
AA-V435 ONLY
TO TUNER PCB
ST
AUTO
MUTE
TUNE
SIG
CE
CLK
DATA
A.SW CE
RESET
TO POWER TRANSFORMER
POWER
TS101
BALANCE
TREBLE
BASS
TO MAIN PCB J10
94HB
A1027A502A
TO TACT SW PCB J2
TO MAIN PCB J11
TO MAIN PCB J13
TO MAIN PCB J12
AA-V335 ONLY
TO TACT SW PCB J3
TO TACT SW PCB J4
TO MAIN PCB J15
AA-V435 ONLY
TR1
TR2

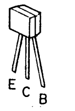
CONTROL PCB A1027A502A


ON/STANDBY
R51
PH127
J5
A502C
94HB

REMOTE CONTROL PCB
A1027A502C

B
▪•• PNP TRANSISTOR

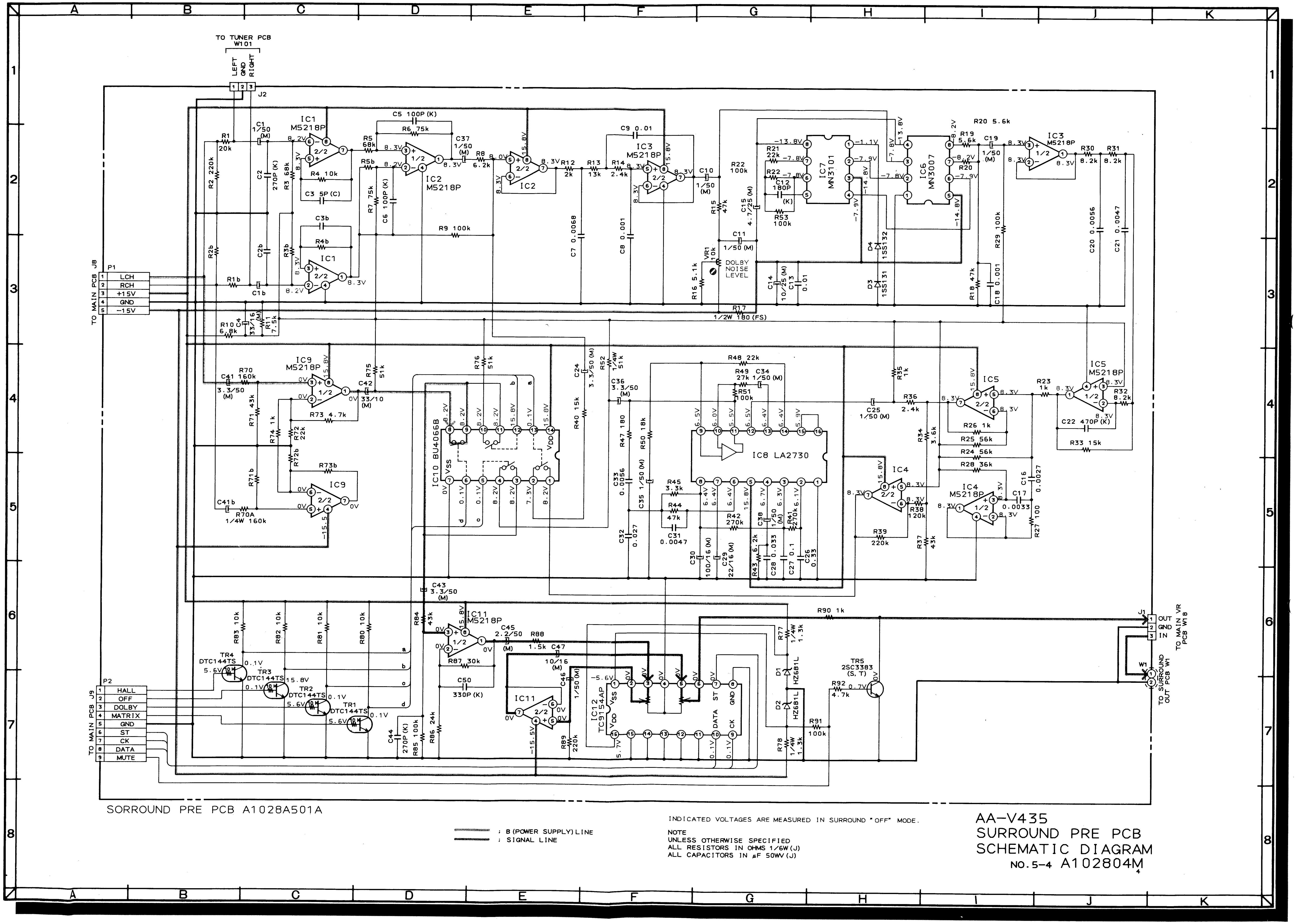
B
••• NPN TRANSISTOR



DTA144TS
DTA144ES
DTA114TS
DTC114TS
DTC124ES

WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


TO TUNER PCB W101
LEFT
GND
RIGHT
J2
TO MAIN PCB J8
P1
LCH
RCH
+15V
GND
−15V
IC1 M5218P
IC2 M5218P
IC3 M5218P
IC4 M5218P
IC5 M5218P
IC9 M5218P
IC11 M5218P
IC6 MN3007
IC7 MN3101
IC8 LA2730
IC10 BU4066B
IC12 TC9154AP
R1 20k
R2 220k
R3 68k
R4 10k
R5 68k
R6 75k
R7 75k
R8 6.2k
R9 100k
R10 6.8k
R11 7.5k
R12 2k
R13 13k
R14 2.4k
R15 47k
R16 5.1k
R17 1/2W 180 (FS)
R18 47k
R19 5.6k
R20 5.6k
R21 22k
R22 100k
R23 1k
R24 56k
R25 56k
R26 1k
R27 100
R28 36k
R29 100k
R30 8.2k
R31 8.2k
R32 8.2k
R33 15k
R34 3.6k
R35 1k
R36 2.4k
R37 43k
R38 120k
R39 220k
R40 15k
R41 270k
R42 270k
R43 6.2k
R44 47k
R45 3.3k
R47 180
R48 22k
R49 27k
R50 18k
R51 100k
R52 1/4W 51k
R53 100k
R70 160k
R70A 1/4W 160k
R71 43k
R72 22k
R73 4.7k
R74 1k
R75 51k
R76 51k
R77 1/4W 1.3k
R78 1/4W 1.3k
R80 10k
R81 10k
R82 10k
R83 10k
R84 43k
R85 100k
R86 24k
R87 30k
R88 1.5k
R89 220k
R90 1k
R91 100k
R92 4.7k
C1 1/50 (M)
C2 270P (K)
C3 5P (C)
C5 100P (K)
C6 100P (K)
C7 0.0068
C8 0.001
C9 0.01
C10 1/50 (M)
C11 1/50 (M)
C12 180P (K)
C13 0.01
C14 10/25 (M)
C15 4.7/25 (M)
C16 0.0027
C17 0.0033
C18 0.001
C19 1/50 (M)
C20 0.0056
C21 0.0047
C22 470P (K)
C24 3.3/50 (M)
C25 1/50 (M)
C26 0.33
C27 0.1
C28 0.033
C29 22/16 (M)
C30 100/16 (M)
C31 0.0047
C32 0.027
C33 0.0056
C34 1/50 (M)
C35 1/50 (M)
C36 3.3/50 (M)
C37 1/50 (M)
C38 1/50 (M)
C4 33/16 (M)
C41 3.3/50 (M)
C42 33/10 (M)
C43 3.3/50 (M)
C44 270P (K)
C45 2.2/50 (M)
C46 1/50 (M)
C47 10/16 (M)
C50 330P (K)
VR1 10k
DOLBY NOISE LEVEL
D1 HZ6B1L
D2 HZ6B1L
D3 1SS131
D4 1SS132
TR1 DTC144TS
TR2 DTC144TS
TR3 DTC144TS
TR4 DTC144TS
TR5 2SC3383 (S, T)
P2
TO MAIN PCB J9
HALL
OFF
DOLBY
MATRIX
GND
ST
CK
DATA
MUTE
J1
OUT
GND
IN
TO MAIN VR PCB W18
W1
TO SURROUND OUT PCB W1
DATA
ST
GND
CK
VSS
VDD

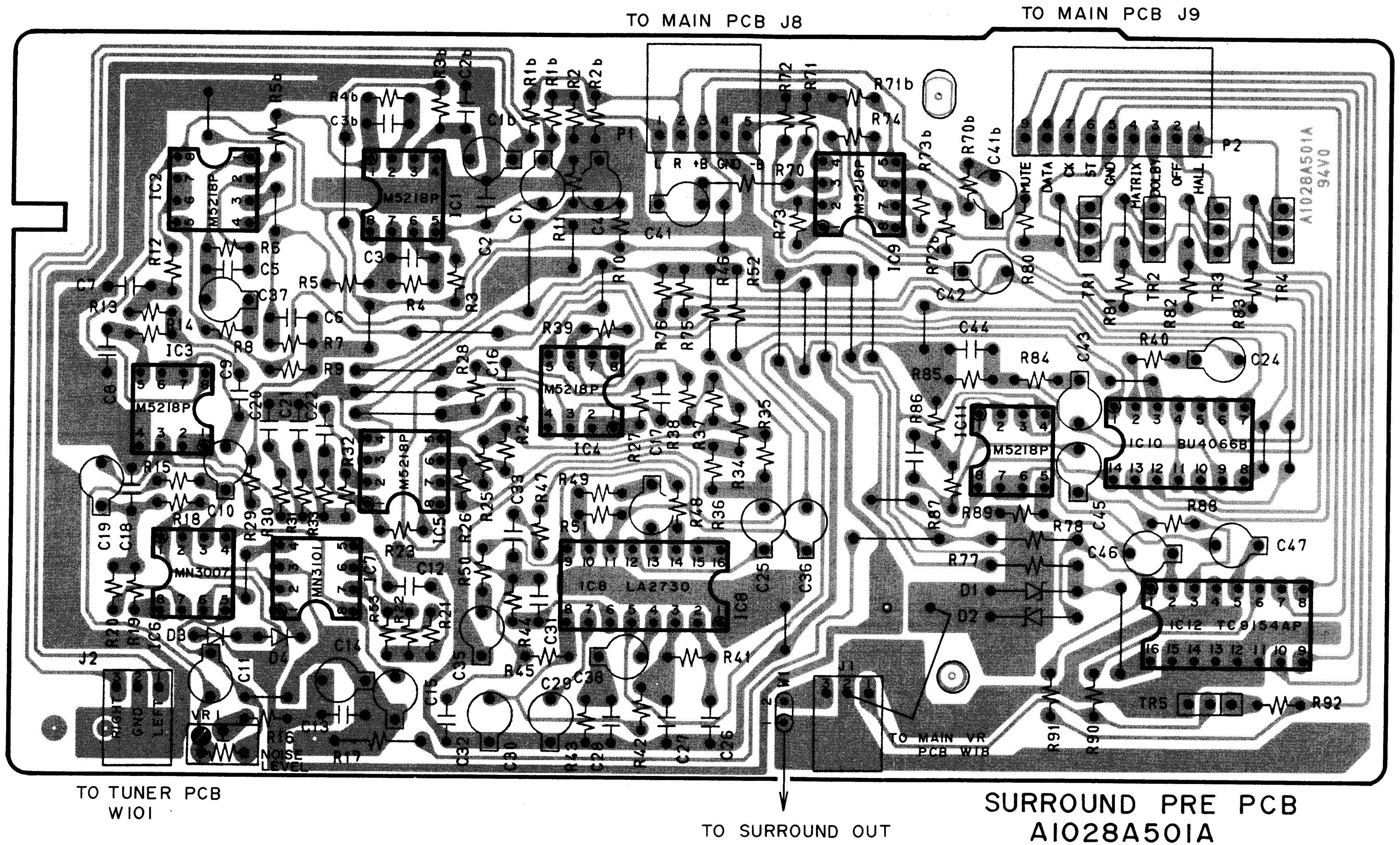
SORROUND PRE PCB A1028A501A

▬ : B (POWER SUPPLY) LINE
▬ : SIGNAL LINE

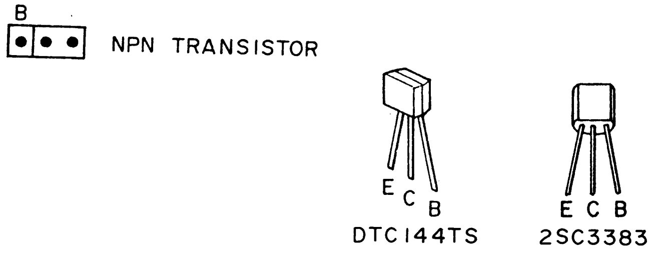
INDICATED VOLTAGES ARE MEASURED IN SURROUND "OFF" MODE.

NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN µF 50WV (J)

AA-V435
SURROUND PRE PCB
SCHEMATIC DIAGRAM
NO.5-4 A102804M

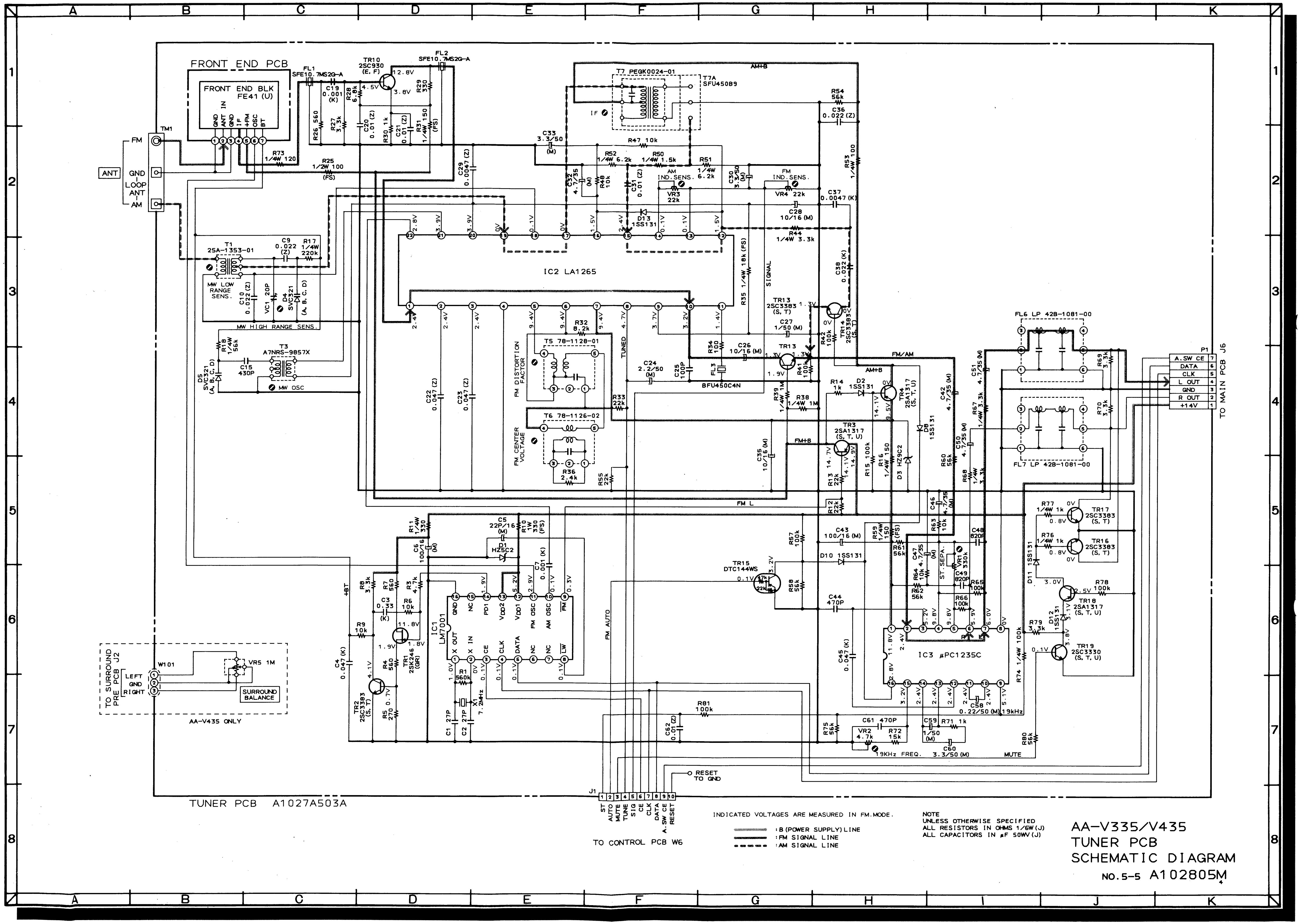

TO MAIN PCB J8
TO MAIN PCB J9
L R +B GND -B
MUTE DATA CK ST GND MATRIX DOLBY OFF HALL
P1
P2
A1028A501A 94V0
IC1 M5218P
IC2 M5218P
IC3 M5218P
IC4 M5218P
IC5 M5218P
IC6 MN3007
IC7 MN3101
IC8 LA2730
IC9 M5218P
IC10 BU4066B
IC11 M5218P
IC12 TC9154AP
TR1
TR2
TR3
TR4
TR5
D1
D2
D3
D4
J1
J2
VR1
NOISE LEVEL
RIGHT GND LEFT
TO MAIN VR PCB W18
TO TUNER PCB W101
TO SURROUND OUT PCB W1

SURROUND PRE PCB
A1028A501A
(MODEL AA-V435 ONLY)


B
NPN TRANSISTOR
E C B
DTC144TS
E C B
2SC3383

WARNING: ⚠INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS

AVERTISSEMENT: ⚠IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL,
NE REMPLACER QUE DES PIÈCES RECOMMANDEES PAR LE FABRICANT


A B C D E F G H I J K
1 2 3 4 5 6 7 8
FRONT END PCB
FRONT END BLK FE41 (U)
GND ANT GND IN IF +FM OSC BT
FL1 SFE10.7MS2G-A
TR10 2SC930 (E, F)
FL2 SFE10.7MS2G-A
12.8V 4.5V 3.8V
C19 0.001 (K)
R28 6.8k
R29 330
R26 560
R27 3.3k
C20 0.01 (Z)
R30 1k
C21 0.01 (Z)
R31 1/4W 150 (FS)
TM1
FM
ANT
GND
LOOP ANT
AM
R73 1/4W 120
R25 1/2W 100 (FS)
C29 0.0047 (Z)
C33 3.3/50 (M)
T7 PEGK0024-01
T7A SFU450B9
IF
AM+B
R54 56k
C36 0.022 (Z)
R47 10k
R52 1/4W 6.2k
R50 1/4W 1.5k
R51 1/4W 6.2k
R53 1/4W 100
C32 4.7/35 (M)
R48 10k
C31 0.01 (Z)
AM IND. SENS.
VR3 22k
C30 3.3/50 (M)
FM IND. SENS.
VR4 22k
C37 0.0047 (K)
C28 10/16 (M)
D13 1SS131
R44 1/4W 3.3k
T1 25A-1353-01
C9 0.022 (Z)
R17 1/4W 220k
MW LOW RANGE SENS.
C10 0.022 (Z)
VC1 20P
D4 SVC321 (A, B, C, D)
MW HIGH RANGE SENS.
IC2 LA1265
2.8V 3.9V 3.9V 0V 0.1V 0V 1.5V 2.4V 0.1V 0.1V 1.5V
2.4V 2.4V 2.4V 9.4V 9.4V 9.4V 4.7V 3.7V 3.2V 1.4V
R35 1/4W 18k (FS)
SIGNAL
C38 0.022 (K)
TR13 2SC3383 (S, T)
TR14 2SC3383 (S, T)
C27 1/50 (M)
R42 100k
R18 1/4W 56k
T3 A7NRS-9857X
C15 430P
D5 SVC321 (A, B, C, D)
MW OSC
R32 8.2k
T5 78-1128-01
FM DISTORTION FACTOR
TUNED
C24 2.2/50 (M)
C25 100P
R34 10k
C26 10/16 (M)
FL3 BFU450C4N
R41 100k
R39 1/4W 1M
R38 1/4W 1M
1.3V 1.9V
FM/AM
AM+B
R14 1k
D2 1SS131
TR4 2SA1317 (S, T, U)
C42 4.7/35 (M)
C51 4.7/35 (M)
FL6 LP 428-1081-00
R69 3.3k
R70 3.3k
FL7 LP 428-1081-00
R67 1/4W 3.3k
R68 1/4W 3.3k
P1
A.SW CE 7
DATA 6
CLK 5
L OUT 4
GND 3
R OUT 2
+14V 1
TO MAIN PCB J6
C22 0.047 (Z)
C23 0.047 (Z)
T6 78-1126-02
FM CENTER VOLTAGE
R36 2.4k
R33 22k
R55 22k
C35 10/16 (M)
FM+B
TR3 2SA1317 (S, T, U)
R13 1/4W 22k
R15 100k
R16 1/4W 150
D3 HZ9C2
D8 1SS131
R60 56k
C50 4.7/35 (M)
14.7V 14.1V 14.9V 14.1V 9.5V
FM L
R12 22k
C46 4.7/35 (M)
R63 10k
R11 1/4W 330
C5 22P/16 (M)
R10 1/2W 330 (FS)
C6 100/16 (M)
D1 HZ5C2
C7 0.001 (K)
R8 3.3k
R7 560
R3 4.7k
+BT
C3 0.33 (K)
R6 10k
11.8V
TR1 2SK246 (GR)
R9 10k
C4 0.047 (K)
R4 560
TR2 2SC3383 (S, T)
R5 270
4.1V 1.9V 1.8V 0.7V
IC1 LM7001
GND NC PD1 VDD2 VDD1 FM OSC AM OSC FM
X OUT X IN CE CLK DATA NC NC LW
R1 560k
X1 7.2MHz
C1 27P
C2 27P
1.0V 0V 0.1V 0.1V 0.1V
FM AUTO
TR15 DTC144WS
R57 100k
C43 100/16 (M)
R59 1/2W 150 (FS)
R61 56k
D10 1SS131
R58 56k
C44 470P
C47 4.7/35
R64 10k
R62 56k
ST. SEPA.
VR1 330k
C49 820P
C48 820P
R65 100k
R66 100k
IC3 µPC1235C
11.8V 2.4V 5.2V 9.8V 9.8V 5.9V 6.0V 0V
2.8V 3.2V 2.4V 2.4V 2.4V 5.1V
C45 0.047 (K)
C58 0.22/50 (M)
19kHz
R74 1/4W 100k
R77 1/4W 1k
TR17 2SC3383 (S, T)
R76 1/4W 1k
TR16 2SC3383 (S, T)
D11 1SS131
R78 100k
TR18 2SA1317 (S, T, U)
D12 1SS131
R79 3.3k
TR19 2SC3330 (S, T, U)
R80 56k
MUTE
R81 100k
C62 0.01 (Z)
R75 56k
C61 470P
VR2 4.7k
R72 15k
C59 1/50 (M)
R71 1k
C60 3.3/50 (M)
19KHz FREQ.
TO SURROUND PRE PCB J2
W101
LEFT GND RIGHT
VR5 1M
SURROUND BALANCE
AA-V435 ONLY
TUNER PCB A1027A503A
J1
ST AUTO MUTE TUNE SIG CE CLK DATA A.SW CE RESET
RESET TO GND
TO CONTROL PCB W6

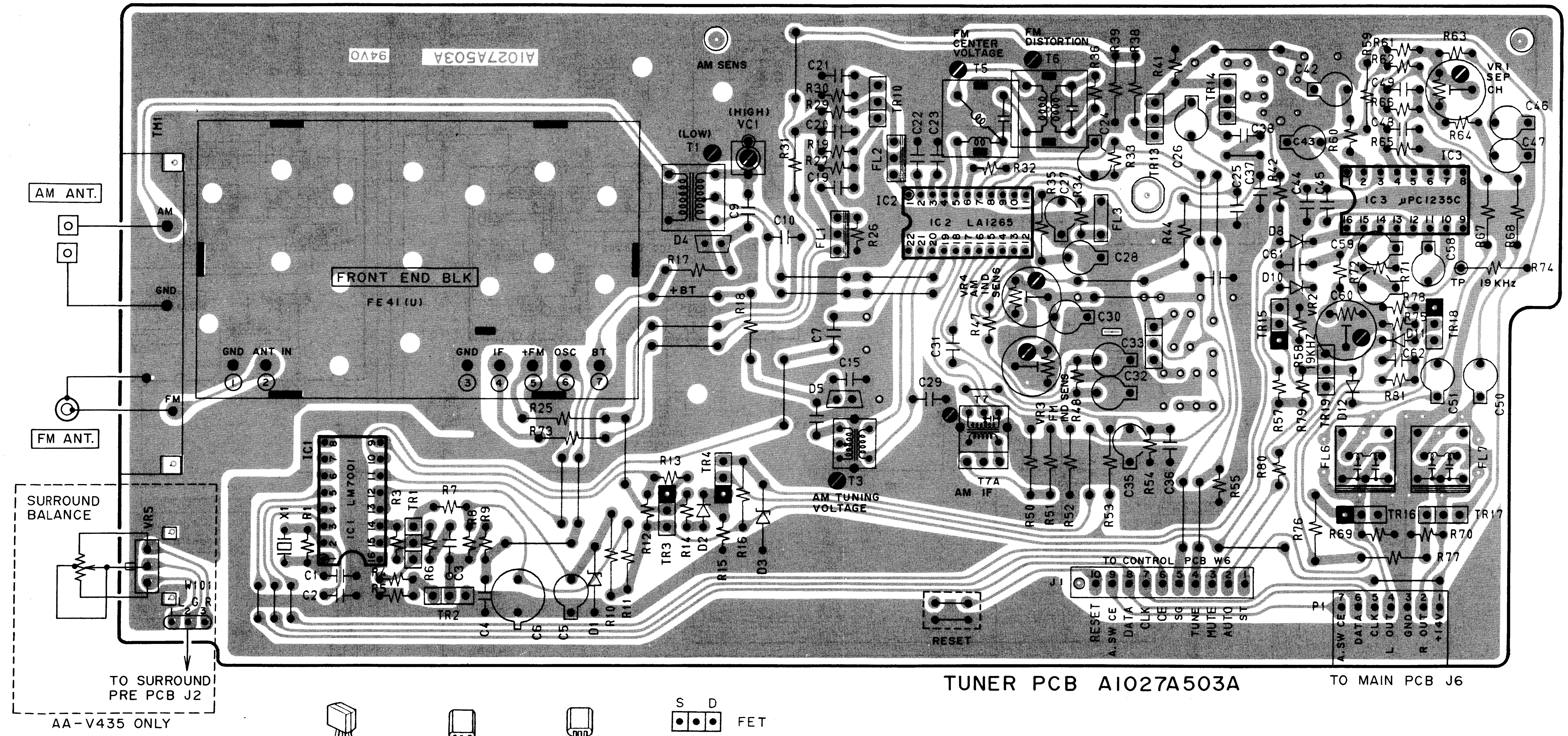
INDICATED VOLTAGES ARE MEASURED IN FM.MODE.

- ▬ :B (POWER SUPPLY) LINE
- ━ :FM SIGNAL LINE
- ╍ :AM SIGNAL LINE

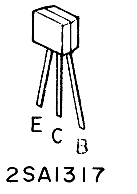
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS 1/6W (J)
ALL CAPACITORS IN µF 50WV (J)

AA-V335/V435
TUNER PCB
SCHEMATIC DIAGRAM

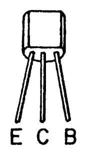
NO.5-5 A102805M


A1027A503A
94V0
AM SENS
(HIGH)
VC1
(LOW)
T1
TM1
AM ANT.
AM
GND
FM
FM ANT.
FRONT END BLK
FE41(U)
GND
ANT IN
GND
IF
+FM
OSC
BT
+BT
D4
R17
R18
R25
R73
SURROUND BALANCE
VR5
W101
TO SURROUND PRE PCB J2
AA-V435 ONLY
IC1 LM7001
X1
C1
C2
R1
R3
TR1
R7
R8
R9
R6
R5
TR2
C4
C6
C5
D1
R10
R11
R12
R13
TR3
R14
D2
TR4
R15
R16
D3
C21
R30
R29
R19
R22
C19
R31
TR10
FL2
C22
C23
FL1
R26
C10
C9
C7
C15
D5
C29
T3
AM TUNING VOLTAGE
IC2 LA1265
FM CENTER VOLTAGE
T5
FM DISTORTION
T6
R36
R39
R38
R41
R32
R33
R35
R34
C27
C24
TR13
TR14
C26
C28
FL3
VR4 AM IND SENS
C30
R47
C31
C33
C32
VR3 FM IND SENS
R48
T7
T7A
AM IF
R50
R51
R52
R53
C35
R54
C36
R55
TO CONTROL PCB W6
J1
RESET
A.SW CE
CLK
OE
SG
TUNE
MUTE
AUTO
ST
C25
C37
C38
R42
R44
C42
C43
C44
C45
R60
D8
C61
D10
TR15
VR2
R58
19KHZ
TR19
D12
R57
R79
R80
R76
C59
R72
R71
C58
C60
R78
C62
R81
TR18
FL6
FL7
C51
C50
R59
R61
R62
C49
R66
C48
R65
R63
VR1 SEP CH
R64
C46
C47
IC3 μPC1235C
R67
R68
R74
TP
19KHz
TR16
TR17
R69
R70
R77
P1
A.SW CE
DATA
CLK
L OUT
GND
R OUT
+14V
TO MAIN PCB J6

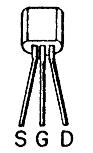
TUNER PCB A1027A503A



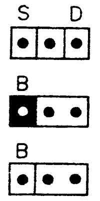
2SA1317
DTC144WS



2SC3383



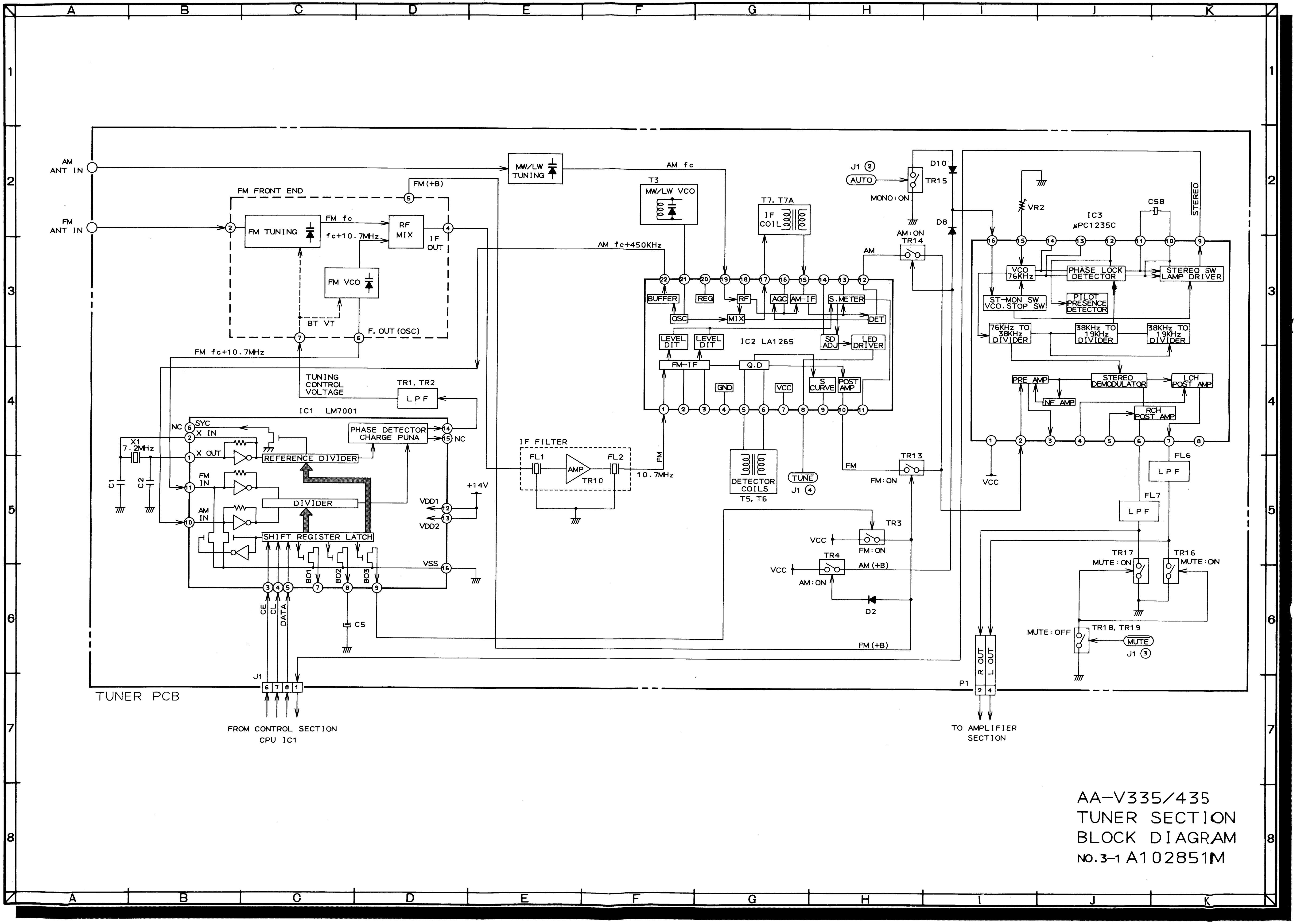
2SK246



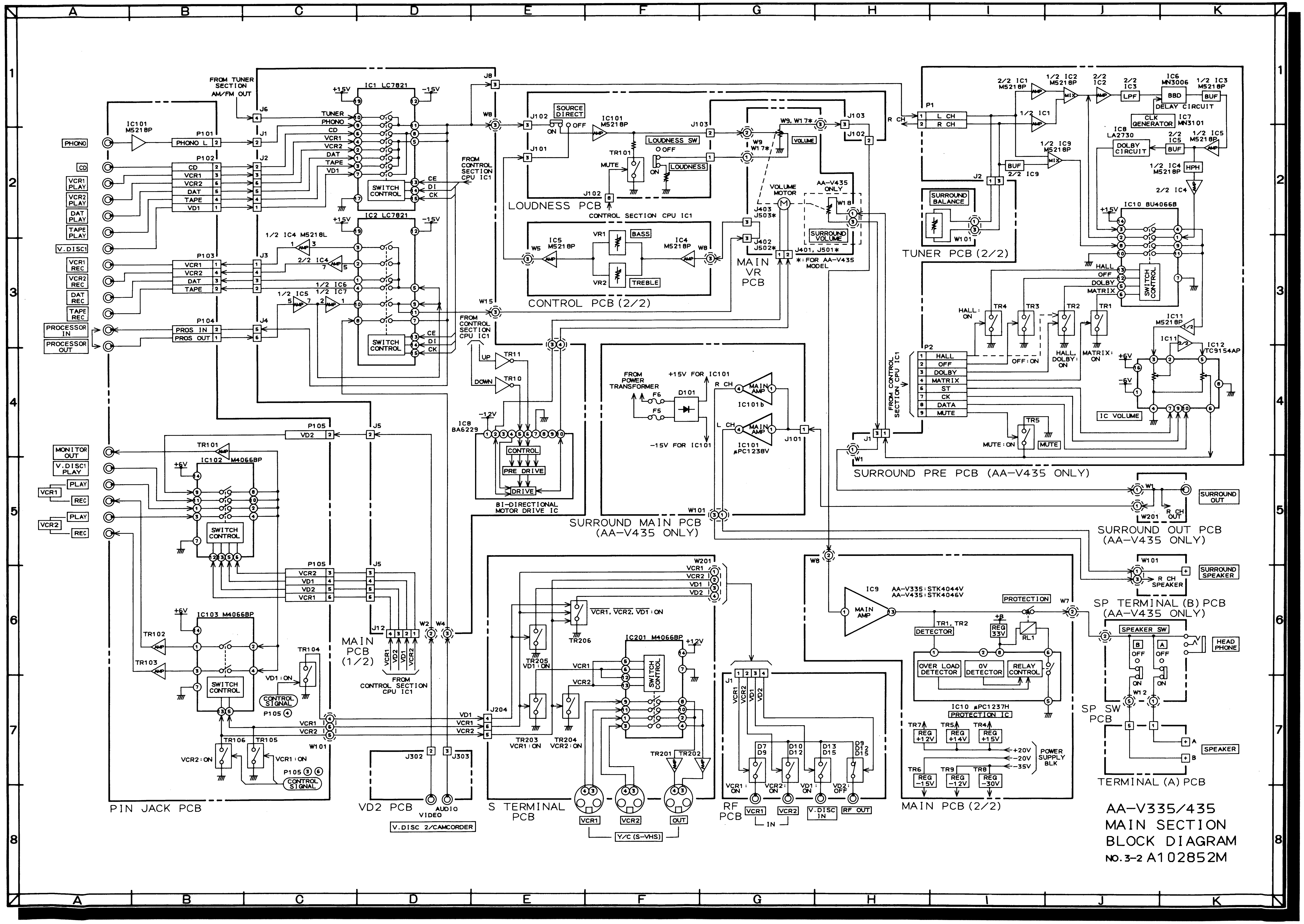
FET

PNP TRANSISTOR

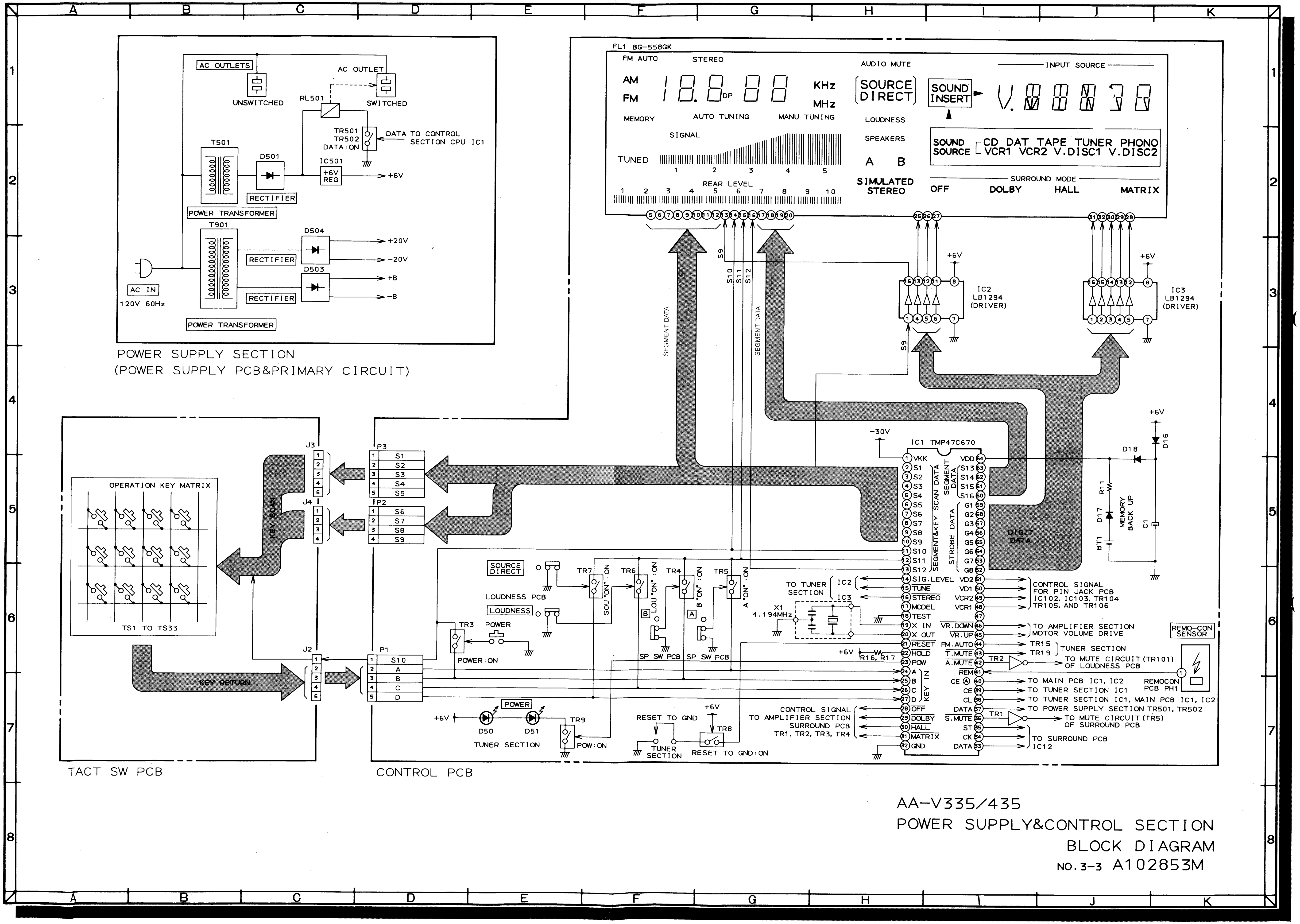
NPN TRANSISTOR


AM ANT IN
FM ANT IN
FM FRONT END
FM (+B)
FM TUNING
FM fc
fc+10.7MHz
RF MIX
IF OUT
FM VCO
BT VT
F. OUT (OSC)
FM fc+10.7MHz
TUNING CONTROL VOLTAGE
TR1, TR2
LPF
IC1 LM7001
NC
SYC
X IN
X OUT
X1 7.2MHz
C1
C2
FM IN
AM IN
PHASE DETECTOR CHARGE PUNA
REFERENCE DIVIDER
DIVIDER
SHIFT REGISTER LATCH
NC
+14V
VDD1
VDD2
VSS
BO1
BO2
BO3
CE
CL
DATA
C5
J1
FROM CONTROL SECTION CPU IC1
TUNER PCB
MW/LW TUNING
AM fc
AM fc+450KHz
T3 MW/LW VCO
T7, T7A
IF COIL
IF FILTER
FL1
FL2
AMP
TR10
10.7MHz
FM
BUFFER
REG
RF
AGC
AM-IF
S.METER
OSC
MIX
DET
LEVEL DIT
LEVEL DIT
IC2 LA1265
SD ADJ
LED DRIVER
FM-IF
Q.D
GND
VCC
S CURVE
POST AMP
DETECTOR COILS
T5, T6
TUNE
J1 ④
J1 ②
AUTO
MONO:ON
TR15
D10
D8
AM:ON
TR14
AM
TR13
FM:ON
TR3
VCC
FM:ON
TR4
VCC
AM (+B)
AM:ON
D2
FM (+B)
VR2
IC3
µPC1235C
C58
STEREO
VCO 76KHz
PHASE LOCK DETECTOR
STEREO SW LAMP DRIVER
ST-MON SW VCO.STOP SW
PILOT PRESENCE DETECTOR
76KHz TO 38KHz DIVIDER
38KHz TO 19KHz DIVIDER
38KHz TO 19KHz DIVIDER
PRE AMP
STEREO DEMODULATOR
LCH POST AMP
NF AMP
RCH POST AMP
VCC
FL6
LPF
FL7
LPF
TR17
MUTE:ON
TR16
MUTE:ON
MUTE:OFF
TR18, TR19
MUTE
J1 ③
R OUT
L OUT
P1
TO AMPLIFIER SECTION
A B C D E F G H I J K
1 2 3 4 5 6 7 8

AA-V335/435
TUNER SECTION
BLOCK DIAGRAM
NO.3-1 A102851M


PHONO
CD
VCR1 PLAY
VCR2 PLAY
DAT PLAY
TAPE PLAY
V.DISC1
VCR1 REC
VCR2 REC
DAT REC
TAPE REC
PROCESSOR IN
PROCESSOR OUT
MONITOR OUT
V.DISC1 PLAY
VCR1 PLAY
VCR1 REC
VCR2 PLAY
VCR2 REC
IC101 M5218P
P101 PHONO L
P102
P103
P104 PROS IN PROS OUT
FROM TUNER SECTION AM/FM OUT
IC1 LC7821
IC2 LC7821
SWITCH CONTROL
1/2 IC4 M5218L
2/2 IC4
1/2 IC6 1/2 IC7
1/2 IC5
FROM CONTROL SECTION CPU IC1
P105 VD2
TR101
IC102 M4066BP
IC103 M4066BP
TR102
TR103
TR104
VD1:ON
CONTROL SIGNAL
TR106 TR105
VCR2:ON VCR1:ON
PIN JACK PCB
MAIN PCB (1/2)
J12
FROM CONTROL SECTION CPU IC1
VD2 PCB
J302 J303
VIDEO AUDIO
V.DISC 2/CAMCORDER
SOURCE DIRECT
J102 J101 J103
IC101 M5218P
LOUDNESS SW
TR101 MUTE
LOUDNESS
LOUDNESS PCB
CONTROL SECTION CPU IC1
IC5 M5218P
IC4 M5218P
VR1 BASS
VR2 TREBLE
CONTROL PCB (2/2)
W9, W17*
VOLUME
VOLUME MOTOR
AA-V435 ONLY
W18
SURROUND VOLUME
J403 J503*
J402 J502*
J401, J501*
*: FOR AA-V435 MODEL
MAIN VR PCB
TR11 UP
TR10 DOWN
IC8 BA6229
CONTROL
PRE DRIVE
DRIVE
BI-DIRECTIONAL MOTOR DRIVE IC
FROM POWER TRANSFORMER
+15V FOR IC101
-15V FOR IC101
D101 F6 F5
MAIN AMP
IC101b
IC101 μPC1238V
J101
SURROUND MAIN PCB (AA-V435 ONLY)
W201
IC201 M4066BP
VCR1, VCR2, VD1 : ON
TR205 VD1:ON
TR206
TR203 VCR1:ON
TR204 VCR2:ON
TR201 TR202
J204
S TERMINAL PCB
VCR1 VCR2 OUT
Y/C (S-VHS)
J1
D7 D9
D10 D12
D13 D15
D9 D12 D15
VCR1: ON
VCR2: ON
VD1: ON
VD2: OFF
RF PCB
VCR1 VCR2 V.DISC IN RF OUT
IN
P1 L CH R CH
2/2 IC1 M5218P
1/2 IC2 M5218P
2/2 IC2
2/2 IC3
LPF
IC6 MN3006
BBD
1/2 IC3 M5218P
BUF
DELAY CIRCUIT
CLK GENERATOR
IC7 MN3101
IC8 LA2730
DOLBY CIRCUIT
2/2 IC5
1/2 IC5 M5218P
1/2 IC9 M5218P
MIX
BUF 2/2 IC9
1/2 IC4 M5218P
HPH
2/2 IC4
SURROUND BALANCE
W101
TUNER PCB (2/2)
IC10 BU4066B
HALL OFF DOLBY MATRIX
SWITCH CONTROL
TR4 TR3 TR2 TR1
HALL: ON
OFF: ON
HALL, DOLBY: ON
MATRIX: ON
IC11 M5218P
IC12 TC9154AP
IC VOLUME
P2
HALL OFF DOLBY MATRIX ST CK DATA MUTE
FROM CONTROL SECTION CPU IC1
TR5 MUTE: ON MUTE
SURROUND PRE PCB (AA-V435 ONLY)
W1 W201 R CH OUT
SURROUND OUT
SURROUND OUT PCB (AA-V435 ONLY)
W101 R CH SPEAKER
SURROUND SPEAKER
SP TERMINAL (B) PCB (AA-V435 ONLY)
IC9 AA-V335: STK4044V AA-V435: STK4046V
MAIN AMP
PROTECTION
W7
TR1, TR2 DETECTOR
+B REG 33V
RL1
OVER LOAD DETECTOR
0V DETECTOR
RELAY CONTROL
IC10 μPC1237H PROTECTION IC
TR7 REG +12V
TR5 REG +14V
TR4 REG +15V
TR6 REG -15V
TR9 REG -12V
TR8 REG -30V
+20V -20V -35V
POWER SUPPLY BLK
MAIN PCB (2/2)
SPEAKER SW
B OFF ON
A OFF ON
W12
HEAD PHONE
SP SW PCB
SPEAKER A B
TERMINAL (A) PCB

AA-V335/435
MAIN SECTION
BLOCK DIAGRAM
NO.3-2 A102852M


A
B
C
D
E
F
G
H
I
J
K
1
2
3
4
5
6
7
8
AC OUTLETS
UNSWITCHED
AC OUTLET
SWITCHED
RL501
TR501
TR502
DATA : ON
DATA TO CONTROL SECTION CPU IC1
T501
D501
IC501
+6V REG
+6V
RECTIFIER
POWER TRANSFORMER
T901
D504
+20V
−20V
D503
+B
−B
RECTIFIER
RECTIFIER
POWER TRANSFORMER
AC IN
120V 60Hz
POWER SUPPLY SECTION
(POWER SUPPLY PCB&PRIMARY CIRCUIT)
FL1 BG-558GK
FM AUTO
STEREO
AM
FM
DP
KHz
MHz
MEMORY
AUTO TUNING
MANU TUNING
SIGNAL
TUNED
1
2
3
4
5
REAR LEVEL
1 2 3 4 5 6 7 8 9 10
AUDIO MUTE
SOURCE DIRECT
SOUND INSERT
LOUDNESS
SPEAKERS
A B
SIMULATED STEREO
INPUT SOURCE
SOUND SOURCE
CD DAT TAPE TUNER PHONO
VCR1 VCR2 V.DISC1 V.DISC2
SURROUND MODE
OFF
DOLBY
HALL
MATRIX
SEGMENT DATA
S9
S10
S11
S12
+6V
IC2
LB1294
(DRIVER)
IC3
LB1294
(DRIVER)
J3
J4
J2
P3
P2
P1
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
A
B
C
D
KEY SCAN
KEY RETURN
OPERATION KEY MATRIX
TS1 TO TS33
TACT SW PCB
SOURCE DIRECT
LOUDNESS PCB
LOUDNESS
POWER
TR3
TR7
TR6
TR4
TR5
SOU "ON" : ON
LOU "ON" : ON
B "ON" : ON
A "ON" : ON
SP SW PCB
SP SW PCB
POWER : ON
+6V
D50
D51
TUNER SECTION
TR9
POW : ON
RESET TO GND
TUNER SECTION
TR8
RESET TO GND : ON
CONTROL PCB
X1
4.194MHz
−30V
IC1 TMP47C670
VKK
VDD
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
G1
G2
G3
G4
G5
G6
G7
G8
SEGMENT&KEY SCAN DATA
SEGMENT DATA
STROBE DATA
DIGIT DATA
SIG.LEVEL
TUNE
STEREO
MODEL
TEST
X IN
X OUT
RESET
HOLD
POW
KEY IN
OFF
DOLBY
HALL
MATRIX
GND
VD2
VD1
VCR2
VCR1
VR.DOWN
VR.UP
FM.AUTO
T.MUTE
A.MUTE
REM
CE Ⓐ
CE
CL
DATA
S.MUTE
ST
CK
DATA
TO TUNER SECTION
IC2
IC3
+6V
R16, R17
CONTROL SIGNAL TO AMPLIFIER SECTION SURROUND PCB TR1, TR2, TR3, TR4
CONTROL SIGNAL FOR PIN JACK PCB IC102, IC103, TR104 TR105, AND TR106
TO AMPLIFIER SECTION MOTOR VOLUME DRIVE
TR15
TR19
TUNER SECTION
TR2
TO MUTE CIRCUIT (TR101) OF LOUDNESS PCB
TO MAIN PCB IC1, IC2
TO TUNER SECTION IC1
TO TUNER SECTION IC1, MAIN PCB IC1, IC2
TO POWER SUPPLY SECTION TR501, TR502
TR1
TO MUTE CIRCUIT (TR5) OF SURROUND PCB
TO SURROUND PCB IC12
REMO-CON SENSOR
REMOCON PCB PH1
+6V
D16
D18
R11
D17
MEMORY BACK UP
C1
BT1

AA-V335/435
POWER SUPPLY&CONTROL SECTION
BLOCK DIAGRAM

NO. 3-3 A102853M